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OM protein - Protein search, using sw model

Run on: July 30, 2004, 12:18:33 ; Search time 54 Seconds
 (without alignments)
 2579.554 Million cell updates/sec

Title: US-10-018-386-2

Perfect score: 1 MRPLCYTCWNLGLAAMGAV.....GSYSLKVVMMIRENPNTFH 493

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters:

1586107

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Listing first 45 summaries

Database : A_Geneseq_23jan04 *

- 1: geneseqp190s:*
- 2: geneseqp1990s:*
- 3: geneseqp200s:*
- 4: geneseqp2001s:*
- 5: geneseqp2002s:*
- 6: geneseqp203as:*
- 7: geneseqp203bs:*
- 8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	2686	100.0	493	AAB66340 Human ang
2	2682	99.9	493	AAY05396 Human TIE
3	2682	99.9	493	AAY54999 Human sca
4	2682	99.9	493	AYT07045 PSEQ-3 pr
5	2682	99.9	493	Aab7997 Angiopoete
6	2682	99.9	493	Aab1179 Amino aci
7	2682	99.9	493	Aau12305 Human PRO
8	2682	99.9	493	Abs51329 Human 410
9	2682	99.9	493	Aao4786 Human mat
10	2682	99.9	493	Abg0355 Human TIE
11	2682	99.9	493	Aael9825 Human TIE
12	2682	99.9	493	Abo17749 Novel hum
13	2682	99.9	493	Abo5150 Novel hum
14	2682	99.9	493	Ada01417 Human ang
15	2682	99.9	493	Abu81003 Human PRO
16	2682	99.9	493	Aee2417 Human ang
17	2682	99.9	493	Abg0355 Human PRO
18	2682	99.9	493	Abu66703 Novel hum
19	2682	99.9	493	Abu57268 Novel sec
20	2682	99.9	493	Abo24974 Human sec
21	2682	99.9	493	Abu72036 Novel hum
22	2682	99.9	493	Abu67137 Novel sec
23	2682	99.9	493	Abu66979 Human sec
24	2682	99.9	493	Aee30353 Human ARP
25	2682	99.9	493	Aab79797 Human sec

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	2686	100.0	493	AAB66340 Human ang
2	2682	99.9	493	AAY05396 Human TIE
3	2682	99.9	493	AAY54999 Human sca
4	2682	99.9	493	AYT07045 PSEQ-3 pr
5	2682	99.9	493	Aab7997 Angiopoete
6	2682	99.9	493	Aab1179 Amino aci
7	2682	99.9	493	Aau12305 Human PRO
8	2682	99.9	493	Abs51329 Human 410
9	2682	99.9	493	Aao4786 Human mat
10	2682	99.9	493	Abg0355 Human TIE
11	2682	99.9	493	Aael9825 Human TIE
12	2682	99.9	493	Abo17749 Novel hum
13	2682	99.9	493	Abo5150 Novel hum
14	2682	99.9	493	Ada01417 Human ang
15	2682	99.9	493	Abu81003 Human PRO
16	2682	99.9	493	Aee2417 Human ang
17	2682	99.9	493	Abg0355 Human PRO
18	2682	99.9	493	Abu66703 Novel hum
19	2682	99.9	493	Abu57268 Novel sec
20	2682	99.9	493	Abo24974 Human sec
21	2682	99.9	493	Abu72036 Novel hum
22	2682	99.9	493	Abu67137 Novel sec
23	2682	99.9	493	Abu66979 Human sec
24	2682	99.9	493	Aee30353 Human ARP
25	2682	99.9	493	Aab79797 Human sec

ALIGNMENTS

Result No.	Score	Query Match Length	DB ID	Description
1	2686	100.0	493	AAB66340 standard; protein; 493 AA.
2	2682	99.9	493	AAB66340;
3	2682	99.9	493	DT
4	2682	99.9	493	DE
5	2682	99.9	493	XX
6	2682	99.9	493	KW
7	2682	99.9	493	dibabetic retinopathy; macular degeneration; cardiovascular disease; reproductive system.
8	2682	99.9	493	XX
9	2682	99.9	493	OS
10	2682	99.9	493	Hom sapiens.
11	2682	99.9	493	XX
12	2682	99.9	493	XX
13	2682	99.9	493	XX
14	2682	99.9	493	XX
15	2682	99.9	493	(FARB) BAYER AG.
16	2682	99.9	493	Friedrich G, Hagen G, Wick M, Zubov D, Dubois-Stringfellow N;
17	2682	99.9	493	DR
18	2682	99.9	493	WPI: 2001-123103/13.
19	2682	99.9	493	DR-N-SSDB; AAF29738.
20	2682	99.9	493	XX
21	2682	99.9	493	Inhibiting angiogenesis for treating cancer, wound healing, diabetic retinopathies, macular degeneration, cardiovascular diseases, by administering angiopoietin-7 polypeptide or its fragments.
22	2682	99.9	493	XX
23	2682	99.9	493	Claim 2; Fig 2; 8pp; English.
24	2682	99.9	493	The present invention describes a method of preventing angiogenesis by administering angiopoietin-7 (ANG-7) nucleic acid, protein, fragment or derivative. This can be used in the treatment of angiogenesis-related diseases, including cancer, wound healing, macular degeneration, cardiovascular diseases, diabetic retinopathies, infections and conditions of the reproductive system such as regulation of placental vasculisation, and also may be used as an abortifacient. Note: In the specification, ANG-7 is also referred to as being angiotensin-7 Sequence 493 AA;

Query Match 100.0%; Score 2686; DB 4; Length 493;
 Best Local Similarity 100.0%; Pred. No. 6.e-217; Mismatches 0; Indels 0; Gaps 0;

DR WPI; 1999-263480/22.
 DR N-PSDB; AAX36341.

XX PT New isolated TIE ligand homologs for, e.g. developing products for
 treatment of tumors.

PT Claim 8; Fig 3; 132pp; English.

CC This sequence is the human tyrosine kinase containing Ig and EGF homology domains (TIE) ligand of the invention, designated Nu1. The TIE receptors are receptor tyrosine kinases which are expressed in vascular endothelial cells and early haemopoietic cells. The TIE receptors are believed to be actively involved in angiogenesis, and may play a role in haemopoiesis as well. The TIE ligand homologs can promote the survival and/or growth and/or differentiation of TIE receptor expressing cells. They can be used for promoting neovascularisation in wound healing and for promoting angiogenic processes, such as for inducing collateral vascularisation in an ischaemic heart or limb, or for promoting bone development and/or maturation and/or growth in a patient or muscle growth and development. The TIE ligand homologs and antibodies can inhibit the growth of endothelial cells and induce apoptosis of cells, particularly tumour cells. They can inhibit vasculogenesis, particularly the vascularisation of a cell in which a gene encoding an Nu1, Nu2, Nu3 or Nu4 polypeptide is amplified. The products can also inhibit vascularisation of a cell in which a gene encoding an Nu1, Nu2, Nu3 or Nu4 polypeptide is amplified. The products can also be used for detection, diagnosis, drug screening and production of transgenic animals

XX Sequence 493 AA;

Query Match 99.9%; Score 2682; DB 2; Length 493;
 Best Local Similarity 99.8%; Pred. No. 1.4e-216; Mismatches 1; Indels 0; Gaps 0;

Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLCVTCAWGLAAMGAVAGAQEDGEGFEGTEGSPPRFIFYKRGESODKCTYTFV 60
 Db 1 MRPLCVTCAWGLAAMGAVAGAQEDGEGFEGTEGSPPRFIFYKRGESODKCTYTFV 60

QY 61 POORVTGAIIVNSKEPVLLENVRHQELENNELKKQRQIETIQQLVKVDGIVSEV 120
 Db 61 POORVTGAIIVNSKEPVLLENVRHQELENNELKKQRQIETIQQLVKVDGIVSEV 120

QY 181 HRYQHIALTAAHQSEITIAQEEHCQVPSAIPVQPPPAAPRVPQPTNRIINQIST 240
 Db 181 HRYQHIALTAAHQSEITIAQEEHCQVPSAIPVQPPPAAPRVPQPTNRIINQIST 240

QY 301 RIMQWMDQRIDPGGMVIIQRLLDSVNFPRNWETYKQGFGNIDGYWGLENIYLWLNQ 360
 Db 301 RIMQWMDQRIDPGGMVIIQRLLDSVNFPRNWETYKQGFGNIDGYWGLENIYLWLNQ 360

QY 361 GNYKLITMEDWSGRKFAEASFRLEPESEYYKURLGRHGNAGSFTWNGQFTTD 420
 Db 361 GNYKLITMEDWSGRKFAEASFRLEPESEYYKURLGRHGNAGSFTWNGQFTTD 420

QY 421 RDHDVYTGCAHYOKGGWWYNACAHSNLNGWYRGHRSRYQDGVVAFRGGSYSLK 480
 Db 421 RDHDVYTGCAHYOKGGWWYNACAHSNLNGWYRGHRSRYQDGVVAFRGGSYSLK 480

QY 481 VNMIRPNPNTFH 493
 Db 481 VNMIRPNPNTFH 493

RESULT 2

AY05396
 ID AY05396 standard; protein; 493 AA.

XX AAY05396;
 XX DT 01-JUL-1999 (first entry)

DE Human TIE ligand N11 protein sequence.

XX Human TIE ligand; Nu1; Nu2; Ig homology domain; angiogenesis; EGF homology domain; receptor tyrosine kinase; vascular endothelial cell; early haemopoietic cell; haemopoisis; neovascularisation; wound healing; endothelial cell; growth inhibitor; apoptosis inducer; tumour cell; vasculogenesis; detection; diagnosis; therapy.

XX Homo sapiens.

XX WO9915653 A2.

XX 01-APR-1999.
 PD 14-SEP-1998; 98WO-US019093.
 PR 19-SEP-1997; 97US-0093821.
 PR 29-OCT-1997; 97US-0090507.

PA (GETH) GENENTECH INC.
 XX Godowski PJ, Gurney AL, Hillian K, Botstein D, Goddard A, Roy M;
 PI Ferrara N, Tumas D, Schwaller R;
 XX ID AAY54999
 XX RESULT 3
 XX ID AAY54999 standard; protein; 493 AA.

		Db	61 PQORVTGAIKVNSKEPEVILLENVRHKOELLNELLKKRQIETLQLQVEVDGGIVSEV 120
XX	AAY54999;	OY	121 KLRKESRMNMRNVRTQLMQILHEIRFRDNALBSOLENRLNQTLTADMLQASKYKDL 180
AC		Db	121 KLRKESRMNMRNVRTQLMQILHEIRFRDNALBSOLENRLNQTLTADMLQASKYKDL 180
XX	18-FEB-2000 (first entry)	OY	181 HKYQHLATIAHNOSEBIAQLEEEHCORPSAREVPQPAPPPVYQPTPYRNINQSTN 240
DT		Db	181 HKYQHLATIAHNOSEBIAQLEEEHCORPSAREVPQPAPPPVYQPTPYRNINQSTN 240
XX	Human scarface 1 protein sequence.	OY	241 EIOSDQNKLPPPLPPTMPLTSLPSSTDKPSGPWRCLOALEDGHDTISIVLKPENTN 300
DE		Db	241 EIOSDQNKLPPPLPPTMPLTSLPSSTDKPSGPWRCLOALEDGHDTISIVLKPENTN 300
XX		OY	301 RLMQWCFQRHDGGWTITQRLLDGSPNPRWETYQKGFGMDGEWGLNLYWINTQ 360
KW	Scarfase 1; human; Sf-1 protein; angiogenesis; wound healing; diagnosis;	Db	301 RLMQWCFQRHDGGWTITQRLLDGSPNPRWETYQKGFGMDGEWGLNLYWINTQ 360
KW	tumour growth; cancer; stem cell amplification; endothelial cell; disease;	OY	361 GNYKLUVTMEDWSGRKRVYASFRPESSEYKURGRHGNAGSFTWANGKQFLTD 420
KW	atherosclerosis; inflammatory disease; neovascularisation; ischaemia;	Db	361 GNYKLUVTMEDWSGRKRVYASFRPESSEYKURGRHGNAGSFTWANGKQFLTD 420
XX	therapy.	OY	421 RDHVYTNCAHQKGWYNACAHNSNINGWVRRGGHRSRVDGVVAFERPGSYSLKK 480
OS	Homo sapiens.	Db	421 RDHVYTNCAHQKGWYNACAHNSNINGWVRRGGHRSRVDGVVAFERPGSYSLKK 480
XX		OY	481 VWMVIRPNNTFH 493
PN	EP962530-A2.	Db	481 VWMVIRPNNTFH 493
XX			
PD	08-DEC-1999.		
XX			
PF	01-JUN-1999; 99EP-00304239.		
XX			
PR	02-JUN-1998; 98US-0087710P.		
PR	08-JUN-1998; 98US-0088503P.		
PR	17-SEP-1998; 98US-0100857P.		
XX			
PA	(ELIL) LILLY & CO EHI.		
XX			
PI	Heuer JG, Burgett SG, Leonard RA, Rosetek PR, Sankhavaray PR;		
XX			
DR	WPI; 2000-025636/03.		
DR	N-PSDB; AA240049.		
XX			
PT	New substantially pure Scarface 1 (Sf-1) protein, useful for screening compounds for modulating angiogenesis, to enhance wound healing, inhibit tumor growth and/or to amplify stem cells.		
PT			
XX			
PS	Claim 2; Page 20-22; 25pp; English.		
XX			
CC	This sequence represents the human Scarface 1 (sf-1) protein of the invention. The Sf-1 nucleic acids are useful as probes to isolate paralogous genes from humans and/or orthologous genes from other organisms. Sf-1 proteins are also useful to screen for compounds that bind the peptides as potential pharmaceutical compounds for modulating angiogenesis. The proteins are useful as therapeutics to enhance wound healing, for developing compounds for inhibiting tumour growth, for treating cancer and for use in a method to amplify stem cells. Sf-1 proteins may be further used in the diagnosis and treatment of certain diseases involving endothelial cells and associated TIE receptors e.g. neoplastic diseases involving tumour angiogenesis, thromboembolic diseases, atherosclerosis, inflammatory diseases. In addition the mammalian ligand may be used to promote proliferation and/or differentiation of hematopoietic stem cells. Sf-1 may be used to promote the growth, survival, migration and/or differentiation and/or stabilisation or destabilisation of cells expressing TIE receptor.		
CC			
CC	Biologically active Sf-1 may be used in the <i>in vitro</i> maintenance of the TIE receptor expressing cells in culture. Alternatively Sf-1 may be used to support cells which are engineered to express TIE receptor and its cognate receptor may be used in assay systems to identify (anti)agonists of the TIE receptor. Sf-1 may be administered to promote neovascularisation and especially to treat ischaemia		
XX	Sequence 493 AA;		
SQ			
Query Match	99.9%; Score 2682; DB 3; Length 493;		
Best Local Similarity	99.8%; Pred. No. 1.4e-216;		
Matches	492; Conservative 0; Mismatches 0; Gaps 0;		
OY	1 MRPLCIVTQWLGILAMGAVAGOEDGEGEGTSPPRFYIARYKRAGESQDKCTYTFIV 60		
Db	1 MRPLCIVTQWLGILAMGAVAGOEDGEGEGTSPPRFYIARYKRAGESQDKCTYTFIV 60		
OY	61 POORVTGAIKVNSKEPEVILLENVRHKOELLNELLKKRQIETLQLQVEVDGGIVSEV 120		

XX	PI	Racie-Collins LA, Lavallie ER;	XX	Human; secreted protein; transmembrane protein; PRO196; PRO444; PR0185; PRO210; PRO215; PRO217; PRO42; PRO288; PRO365; PRO361; F
XX	WPI	2000-664990/64.	XX	KW PRO183; PRO1272; PRO1419; PRO1999; PRO7170; PRO248; PRO353; PRO1331; F
DR	N-PSDB	AAI72856.	XX	KW PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO37; PRO031; PRO1411; PRO265; PRO246; PRO941; PRO1006; PRO6003; PRO6004; PRO350; PRO263; PRO6309; cell death; genetic disorder; transgenic animal; gene the
PT	New angiopoietin-like proteins 2 and 3, apple crisp and cocoa crisp	proteins and polynucleotides, useful in treating e.g. autoimmune	XX	PT diseases, cancer, or central and peripheral nervous system disorders and
PT	neuropathies.	PT	XX	
XX	SQ	Sequence 493 AA:	OS Homo sapiens.	
PS	Claim 31; Page 71-72; 8APP; English.	Key	location/Qualifiers	
PS	The sequences given in AAB4796-99 show angiopoietin-like protein 2 (AR2), angiopoietin-like 3 protein (AR3), apple crisp protein (APPLE), or cocoa crisp protein (COCO), respectively. These sequences were isolated by indirect cloning techniques, e.g. signal sequence cloning, which isolates DNA based on the presence of well known secretory leader motifs. AR2 and AR3 promote angiogenesis and may therefore be used in wound healing and transplantation	Peptide	1..22 /note= "signal peptide"	
XX	Best Local Similarity 99.8%; Score 2682; DB 3; Length 493; Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;	Modified-site	12..18 /note= "N-myristoylation site"	
QY	1 MRPLCYTCWMTGILLAMANGAVAGQEDPEGTEGSPREFTINYRVERAGESODKCTYTFIV 60	Modified-site	18..24 /note= "N-myristoylation site"	
Db	1 MRPLCYTCWMTGILLAMANGAVAGQEDPEGTEGSPREFTINYRVERAGESODKCTYTFIV 60	Modified-site	22..28 /note= "N-myristoylation site"	
QY	61 PQQRVIGAICVNSKEPVLENVRVHQELELLNNELIKQKQIETTQQLVKRDGGIVSE 120	Modified-site	29..35 /note= "N-myristoylation site"	
Db	61 PQQRVIGAICVNSKEPVLENVRVHQELELLNNELIKQKQIETTQQLVKRDGGIVSE 120	Modified-site	39..45 /note= "N-myristoylation site"	
QY	121 KLLRKESRNMSRVTOLYMQLHEIRKRDVALESOLERLINQADMLQASCKDLE 180	Modified-site	46..52 /note= "N-myristoylation site"	
Db	121 KLLRKESRNMSRVTOLYMQLHEIRKRDVALESOLERLINQADMLQASCKDLE 180	Modified-site	59..65 /note= "N-myristoylation site"	
QY	181 HKYQHQLATLHNQSEITIAQLEHCHQRYPSAPVPPPAAPPRVQOPTNRINQISTN 240	Modified-site	77..83 /note= "N-glycosylation site"	
Db	181 HKYQHQLATLHNQSEITIAQLEHCHQRYPSAPVPPPAAPPRVQOPTNRINQISTN 240	Modified-site	177..184 /note= "tyrosine kinase phosphorylation site"	
QY	241 ETQSDQNLKVTPPPLPMTLTSPLSSTDKESGPWRDQCLQALEDDGHDTSSTYLVEPNTN 300	Modified-site	192..196 /note= "N-glycosylation site"	
Db	241 ETQSDQNLKVTPPPLPMTLTSPLSSTDKESGPWRDQCLQALEDDGHDTSSTYLVEPNTN 300	Modified-site	341..347 /note= "N-myristoylation site"	
QY	301 RIMQWVQDQRDPGGWTVIQRLLDGSYNSFRNFWETTKQGFGNIDSGYWLGLENTIWLTNQ 360	Modified-site	373..377 /note= "amidation site"	
Db	301 RIMQWVQDQRDPGGWTVIQRLLDGSYNSFRNFWETTKQGFGNIDSGYWLGLENTIWLTNQ 360	Modified-site	385..394 /note= "tyrosine kinase phosphorylation site"	
QY	361 GNYKLKVTTMEDMSGKRYFAEYSSFLRLEPESEYYKKLURGYHGNAGSDSFTWINGKQFTLD 420	Modified-site	385..393 /note= "tyrosine kinase phosphorylation site"	
Db	361 GNYKLKVTTMEDMSGKRYFAEYSSFLRLEPESEYYKKLURGYHGNAGSDSFTWINGKQFTLD 420	Modified-site	461..468 /note= "tyrosine kinase phosphorylation site"	
QY	421 RHDWYTGNCAYQKGGMWYNACAHSLNGWYRGRHRSYQDGTWASERGGYSLLK 480	Modified-site	465..471 /note= "tyrosine kinase phosphorylation site"	
Db	421 RHDWYTGNCAYQKGGMWYNACAHSLNGWYRGRHRSYQDGTWASERGGYSLLK 480	Modified-site	473..479 /note= "N-myristoylation site"	
QY	481 VWMAMRPNPNTFH 493	Modified-site	479..485 /note= "N-myristoylation site"	
Db	481 VWMAMRPNPNTFH 493	PD	XX 21-DBC-2000.	
RESULT 6	AAB31179 standard; protein: 493 AA.	PP	XX 22-MAY-2000; 2000WO-US014042.	
XX	AAB31179;	PR	15-JUN-1999; 990139695P.	
AC	20-APR-2001 (first entry)	PR	20-JUL-1999; 990150707P.	
XX		PR	26-JUL-1999; 99015015698P.	
DT		PR	01-AUG-1999; 990149396P.	
XX		PR	01-SEP-1999; 990162011I.	
DT		PR	08-SEP-1999; 9901-US020594.	
DE	Amino acid sequence of human polypeptide PRO196.	PR	15-SEP-1999; 9901-US021090.	
ID	AAB31179	PR	15-SEP-1999; 9901-US021547.	
PR		PR	30-NOV-1999; 9901-US028313.	
PR		PR	01-DEC-1999; 9901-US028301.	
PR		PR	01-MAR-2000; 2000WO-US004414.	
PR		PR	22-FEB-2000; 2000WO-US005601.	
PR		PR	07-DEC-1999; 99US168495P.	
PR		PR	05-JAN-2000; 2000WO-US00219.	
PR		PR	18-FEB-2000; 2000WO-US004341.	
PR		PR	18-FEB-2000; 2000WO-US004342.	
PR		PR	22-FEB-2000; 2000WO-US004414.	
PR		PR	01-MAR-2000; 2000WO-US005601.	
PR		PR	02-MAR-2000; 2000WO-US005841.	
PR		PR	20-MAR-2000; 2000WO-US007377.	
PR		PR	30-MAR-2000; 2000WO-US008439.	

PI	Gerritsen ME,	Goddard A,	Godowski PJ,	Gurrieri AL,	Sherwood SJ;
PT	Smith V,	Stewart TA,	Tumas D,	Watanabe CK,	Wood WI,
XX	Zhang Z;				
DR	WII;	2001-408281/43.			
N-PSDB:	AAS21377.				
XX	Isolated , secretory and transmembrane PRO polypeptide used to detect other PRO polypeptides, link bioactive molecules to cells expressing PRO polypeptides, and detect the presence of mammalian tumors e.g. lung, breast, prostate, cervical.				
PS	Claim 12; Fig 268; 813PP; English.				
XX	AAU1212-AAU12446 represent novel human secretory and transmembrane PRO polypeptides. The PRO polypeptides are useful to detect other PRO polypeptides, to link bioactive molecules to cells expressing PRO polypeptides, to modulate biological activities of cells expressing PRO polypeptides, and to detect the presence of mammalian lung, colon, breast, prostate, rectal, cervical or liver tumours by comparing PRO polypeptide expression in a cell sample to that in a control sample. Some of the 275 sequences are also useful to stimulate the release of tumour necrosis factor-alpha (TNF-alpha) from human blood, the proliferation or differentiation of chondrocytes, the proliferation or gene expression in pericyte cells, the release of proteoglycans from cartilage, the proliferation of inner ear utricular supporting cells or of T-lymphocytes, the release of a cytokine from peripheral blood monocytes (PBMCs), or the proliferation of endothelial cells. Some of the PRO polypeptides may modulate glucose or free fatty acid uptake by skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide to factor VIIa. The PRO polypeptides can be used in assays to identify molecules involved in binding interactions. The polynucleotides encoding PRO polypeptides can be used to generate probes, antisense RNA/DNA, transgenic or knock out animals and can be used in gene therapy				
XX	SQ Sequence 493 AA;				
Query Match	99.9%; Score 2682; DB 4; Length 493;				
Best Local Similarity	99.8%; Pred. No. 1.4e-216; Mismatches 0; Indels 0; Gaps 0;				
Matches	492; Conservative 1; Mis matches 0;				
OY	1 MRPLCIVTCWIGLILLAAMGAVAGAQEDGEGFEGTEEGPREFTYLNRYKRAAGSDQDKCTYFIV 60				
Db	1 MREPLCIVTCWIGLILLAAMGAVAGAQEDGEGFEGTEEGPREFTYLNRYKRAAGSDQDKCTYFIV 60				
Db	1 PQQRTVGAICVNSKEPEVILENVRHQELLENNELIKKQROIETQOLQVLVEDGGIVSEV 120				
Db	1 PQQRTVGAICVNSKEPEVILENVRHQELLENNELIKKQROIETQOLQVLVEDGGIVSEV 120				
OY	121 KLLRKESRNNRSVTOLYMOHLHEITRKRNDALESLQENRLNQTAADMQLASKYDLE 180				
Db	121 KLLRKESRNNRSVTOLYMOHLHEITRKRNDALESLQENRLNQTAADMQLASKYDLE 180				
OY	181 HYKQHLATLAHNQSETIAQELHECQRVPSARPVPQPPAAPPVYQOPTNRIINQISTN 240				
Db	181 HYKQHLATLAHNQSETIAQELHECQRVPSARPVPQPPAAPPVYQOPTNRIINQISTN 240				
OY	241 EIQSPDNQKLVPPPLPPTMPMPLTSPLSSSTDKPSGPWDCLQALEGDHTSSTIYLVKPENTN 300				
Db	241 EIQSPDNQKLVPPPLPPTMPMPLTSPLSSSTDKPSGPWDCLQALEGDHTSSTIYLVKPENTN 300				
OY	301 RLMQWCDQDRDPGGWVIQRLDGSNFPRNWETYKQGNGIDBYWLGLENIYLWTNQ 360				
Db	301 RLMQWCDQDRDPGGWVIQRLDGSNFPRNWETYKQGNGIDBYWLGLENIYLWTNQ 360				
OY	361 GNYKLUVTMDEWSGRKVFAYASFLPEPESEYYKLRIGRIGTGNADSDFTWNGKQFTLD 420				
Db	361 GNYKLUVTMDEWSGRKVFAYASFLPEPESEYYKLRIGRIGTGNADSDFTWNGKQFTLD 420				
OY	421 RDHDYTGNCAYHQCGWMWNACAHNSNLNGYMRGHYRSYQDGYWAFFRGGSYSLK 480				
Db	421 RDHDYTGNCAYHQCGWMWNACAHNSNLNGYMRGHYRSYQDGYWAFFRGGSYSLK 480				
OY	361 GNYKLUVTMDEWSGRKVFAYASFLPEPESEYYKLRIGRIGTGNADSDFTWNGKQFTLD 420				
481 VVMMPNPNTFH 4 93					
Db	481 VVMMPNPNTFH 4 93				
RESULT 8					
AAB51329					
ID AAB51329 standard; protein; 493 AA.					
XX					
KW Human; 410; NEW; angiopoietin-like protein; angiogenesis.					
XX					
OS Homo sapiens.					
XX					
PN JP2000300263-A.					
XX					
PD 31-OCT-2000.					
XX					
PF 14-APR-1999; 99JP-00107234.					
XX					
PR 14-APR-1999; 99JP-00107234.					
XX					
PA (HERI-) HERIKKUSU KENKYUSHO KK.					
XX					
DR WPI; 2001-151128/16.					
XX					
N-PSDB; AAF26789.					
XX					
PT New genes encoding angiopoietin-like proteins 410 and NEW, useful for the prevention and treatment of diseases relating to angiogenesis.					
XX					
PS Claim 1; Page 12-13; 26pp; Japanese.					
XX					
CC The present invention describes two human angiopoietin-like proteins designated 410 and NEW. The angiopoietin-like proteins can be used for the prevention and treatment of diseases relating to angiogenesis. The present sequence represents the human 410 angiopoietin-like protein					
XX					
SQ Sequence 493 AA;					
Query Match	99.9%; Score 2682; DB 4; Length 493;				
Best Local Similarity	99.8%; Pred. No. 1.4e-216; Mismatches 0; Indels 0; Gaps 0;				
Matches	492; Conservative 1; Mis matches 0;				
OY	1 MRPLCIVTCWIGLILLAAMGAVAGAQEDGEGFEGTEEGPREFTYLNRYKRAAGSDQDKCTYFIV 60				
Db	1 MREPLCIVTCWIGLILLAAMGAVAGAQEDGEGFEGTEEGPREFTYLNRYKRAAGSDQDKCTYFIV 60				
Db	1 PQQRTVGAICVNSKEPEVILENVRHQELLENNELIKKQROIETQOLQVLVEDGGIVSEV 120				
Db	1 PQQRTVGAICVNSKEPEVILENVRHQELLENNELIKKQROIETQOLQVLVEDGGIVSEV 120				
OY	121 KLLRKESRNNRSVTOLYMOHLHEITRKRNDALESLQENRLNQTAADMQLASKYDLE 180				
Db	121 KLLRKESRNNRSVTOLYMOHLHEITRKRNDALESLQENRLNQTAADMQLASKYDLE 180				
OY	181 HYKQHLATLAHNQSETIAQELHECQRVPSARPVPQPPAAPPVYQOPTNRIINQISTN 240				
Db	181 HYKQHLATLAHNQSETIAQELHECQRVPSARPVPQPPAAPPVYQOPTNRIINQISTN 240				
OY	241 EIQSPDNQKLVPPPLPPTMPMPLTSPLSSSTDKPSGPWDCLQALEGDHTSSTIYLVKPENTN 300				
Db	241 EIQSPDNQKLVPPPLPPTMPMPLTSPLSSSTDKPSGPWDCLQALEGDHTSSTIYLVKPENTN 300				
OY	301 RLMQWCDQDRDPGGWVIQRLDGSNFPRNWETYKQGNGIDBYWLGLENIYLWTNQ 360				
Db	301 RLMQWCDQDRDPGGWVIQRLDGSNFPRNWETYKQGNGIDBYWLGLENIYLWTNQ 360				
OY	361 GNYKLUVTMDEWSGRKVFAYASFLPEPESEYYKLRIGRIGTGNADSDFTWNGKQFTLD 420				
Db	361 GNYKLUVTMDEWSGRKVFAYASFLPEPESEYYKLRIGRIGTGNADSDFTWNGKQFTLD 420				
OY	421 RDHDYTGNCAYHQCGWMWNACAHNSNLNGYMRGHYRSYQDGYWAFFRGGSYSLK 480				
Db	421 RDHDYTGNCAYHQCGWMWNACAHNSNLNGYMRGHYRSYQDGYWAFFRGGSYSLK 480				
OY	361 GNYKLUVTMDEWSGRKVFAYASFLPEPESEYYKLRIGRIGTGNADSDFTWNGKQFTLD 420				

Db	361 GNYKLIVTMDWSGRKVFAEYASFRPESEYYKLRLGRYHNAGNSFTWINGKQFTTLID 420	Db	1 MRPLCVTCWMLGLIAAMGAVAGOBDGFEGTECSRSPRIEVYKRAGESQDKTYFIV 60
Qy	421 RDHVYTGNCAHOKGGWYNACAHNSUNGVMRGHYSRQDGTYWAERGGSYSLKK 480	Qy	61 PQRVTGAIKVNSKEPEVLENTRVKQLEELNLNLKQKRQETIQLQVKGIVSEV 12
Db	421 RDHVYTGNCAHOKGGWYNACAHNSUNGVMRGHYSRQDGTYWAERGGSYSLKK 480	Qy	61 PQRVTGAIKVNSKEPEVLENTRVKQLEELNLNLKQKRQETIQLQVKGIVSEV 12
Qy	481 VMMIRPNNTFH 493	Qy	121 KLLRKESRMNSRTVOLYQMLHEIRKDNLAEQLSQNRTLNQADMILASKYDLE 18
Db	481 VMMIRPNNTFH 493	Db	121 KLLRKESRMNSRTVOLYQMLHEIRKDNLAEQLSQNRTLNQADMILASKYDLE 18
RESULT 9.		Db	61 PQRVTGAIKVNSKEPEVLENTRVKQLEELNLNLKQKRQETIQLQVKGIVSEV 12
AAO14786	ID AAO14786 standard; protein: 493 AA.	Qy	181 HKYQHILATLAHNSERTIAQLEBHQCRVSARPVQPQPPAAPPYRQPTYRINQISTN 24
XX		Db	181 HKYQHILATLAHNSERTIAQLEBHQCRVSARPVQPQPPAAPPYRQPTYRINQISTN 24
AC	AAO14786;	Qy	121 KLLRKESRMNSRTVOLYQMLHEIRKDNLAEQLSQNRTLNQADMILASKYDLE 18
XX		Db	121 KLLRKESRMNSRTVOLYQMLHEIRKDNLAEQLSQNRTLNQADMILASKYDLE 18
DT	11-JUL-2002 (first entry)	Db	61 PQRVTGAIKVNSKEPEVLENTRVKQLEELNLNLKQKRQETIQLQVKGIVSEV 12
XX	DE Human matrix-remodeling-associated protein 3.	Qy	181 HKYQHILATLAHNSERTIAQLEBHQCRVSARPVQPQPPAAPPYRQPTYRINQISTN 24
XX	Human; matrix-remodeling gene; extracellular matrix;	Db	121 KLLRKESRMNSRTVOLYQMLHEIRKDNLAEQLSQNRTLNQADMILASKYDLE 18
KW	matrix-remodeling-associated nucleotide; screening;	Qy	181 HKYQHILATLAHNSERTIAQLEBHQCRVSARPVQPQPPAAPPYRQPTYRINQISTN 24
KW	matrix remodeling-associated disease; angiogenesis; arthritis;	Db	121 KLLRKESRMNSRTVOLYQMLHEIRKDNLAEQLSQNRTLNQADMILASKYDLE 18
KW	atherosclerosis; cancer; cardiomyopathy; diabetic necrosis; fibrosis;	Qy	181 HKYQHILATLAHNSERTIAQLEBHQCRVSARPVQPQPPAAPPYRQPTYRINQISTN 24
KW	KW ulceration.	Db	121 KLLRKESRMNSRTVOLYQMLHEIRKDNLAEQLSQNRTLNQADMILASKYDLE 18
OS	Homo sapiens.	Qy	181 HKYQHILATLAHNSERTIAQLEBHQCRVSARPVQPQPPAAPPYRQPTYRINQISTN 24
XX	US2002019000-A1.	Db	61 PQRVTGAIKVNSKEPEVLENTRVKQLEELNLNLKQKRQETIQLQVKGIVSEV 12
XX	PD 14-FEB-2002.	Qy	361 GNYKLIVTMDWSGRKVFAEYASFRPESEYYKLRLGRYHNAGNSFTWINGKQFTTLID 420
XX	26-MAR-2001; 2001US-00818143.	Db	361 GNYKLIVTMDWSGRKVFAEYASFRPESEYYKLRLGRYHNAGNSFTWINGKQFTTLID 420
XX	PR 09-OCT-1998; 98US-00169289.	Qy	421 RDHVYTGNCAHOKGGWYNACAHNSUNGVMRGHYSRQDGTYWAERGGSYSLKK 480
XX	PA (WALK/) WALKER M. G.	Db	421 RDHVYTGNCAHOKGGWYNACAHNSUNGVMRGHYSRQDGTYWAERGGSYSLKK 480
PA	(VOLK/) VOLKNUTH W.	Qy	481 VMMIRPNNTFH 493
PA	(KLIN/) KLINGER T. M.	Db	481 VMMIRPNNTFH 493
PI	Walker MG, Volkmut W, Klingler TM;		
DR	WPI; 2002-338319/37.		
XX	N-PSDB; AAL42455.		
XX	New isolated polynucleotide coexpressed with matrix-remodeling genes, useful in diagnosis, prognosis, prevention and treatment of diseases associated with matrix-remodeling such as angiogenesis, arthritis and cancer.		
XX	The invention comprises human nucleotide sequences which are co-expressed with matrix-remodeling genes. Matrix-remodeling is associated with the construction, destruction and reorganisation of extracellular matrix components. The matrix-remodeling-associated nucleotides of the invention are useful for screening and purifying ligands that specifically bind to the nucleotides of the invention. The matrix-remodeling-associated nucleotides of the invention are also useful in the diagnosis, prognosis, prevention, treatment and evaluation of therapies for diseases associated with matrix remodelling (e.g. angiogenesis, arthritis, atherosclerosis, cancer, cardiomyopathy, diabetic necrosis, fibrosis and ulceration). The present amino acid sequence is encoded by a human matrix-remodeling associated nucleotide of the invention.		
PS	Example; Fig 3; 63pp; English.		
XX		RESULT 10	
CC		ABG80355	
CC		ID ABG80355 standard; protein: 493 AA.	
CC		XX	
CC		AC ABG80355;	
CC		XX	
CC		DT 15-NOV-2002 (first entry)	
XX		XX	
DE		Human TIE ligand NL1 protein.	
XX		XX	
KW		Human; TIE ligand NL4; vascularisation; wound healing; heart; limb; ischaemic condition; pulmonary; vasotropic; gene therapy; NL1; NL5; NL8.	
KW		XX	
PT		OS Homo sapiens.	
PT		XX	
XX		PN US6413770-B1.	
PS		XX	
XX		PD 02-JUL-2002.	
XX		XX	
PD		PF 19-AUG-1998; 98US-00136801.	
XX		XX	
PR		PR 19-SEP-1997; 97US-00933821.	
PR		PR 29-OCT-1997; 97US-00960507.	
XX		XX	
PA		(GENTECH INC.	
XX		XX	
PA		Godowski P, Gurney A, Hillan KJ, Botstein D, Goddard A, Roy M;	
PI		PI Ferrara N, Tumas D, Schwall R;	
XX		XX	
DR		DR WPI; 2002-641562-69.	
DR		DR N-PSDB; ABS55529.	
XX			
Query Match	99.9%; Score 2682; DB 5; Length 493;	PT Novel isolated nucleic acid molecules encoding NL4 TIE ligand homologue	
Best Local Similarity	99.8%; Pred. No. 1.4e-216; Indels 0; Gaps 0;	PT Polypeptides which are useful for inducing vascularization for wound	
Matches	492; Conservative 1; Mismatches	PT healing and treating ischemic condition of the heart or a limb.	
Qy	1 MRPLCVTCWMLGLIAAMGAVAGOBDGFEGTECSRSPRIEVYKRAGESQDKTYFIV 60	PS Example 1; Fig 3; 85pp; English.	

OY	481	VVMIRPNTFHH	493	PR	22-DEC-1999;	99WO-US030720.
Db				PR	30-DEC-1999;	99WO-US031243.
RESULT	12			PR	05-JAN-2000;	000WO-US000219.
ABO17749	ID	ABO17749	standard; protein;	PR	06-JAN-2000;	000WO-US000277.
XX	AC	ABO17749;	493 AA.	PR	11-FEB-2000;	2000WO-US003555.
XX	DT	26-AUG-2003	(first entry)	PR	18-FEB-2000;	2000WO-US004341.
XX	DS	Novel human secreted and transmembrane protein PRO196.		PR	18-FEB-2000;	2000WO-US004344.
XX		Human; secreted and transmembrane protein; PRO; antiinflammatory; antiarteriosclerotic; Cardiant; anti-infertility; anti-HIV; cytostatic; antidiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release; TNF-alpha release; cell proliferation; cell differentiation; gene expression modulator; proteoglycan release; cytokine release; tumour; inflammatory disease; organ failure; atherosclerosis; acquired immunodeficiency syndrome; cancer; diabetic complication; cardiac injury; infertility; birth defect; premature aging; AIDS; chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor; tissue typing.		PR	22-FEB-2000;	2000WO-US004114.
OS		Homo sapiens.		PR	24-FEB-2000;	2000WO-US005004.
XX				PR	01-MAR-2000;	2000WO-US005601.
PN		US2003032156-A1.		PR	02-MAR-2000;	2000WO-US005841.
XX				PR	10-MAR-2000;	2000WO-US006119.
PD		13-FEB-2003.		PR	15-MAR-2000;	2000WO-US006184.
XX				PR	20-MAR-2000;	2000WO-US007377.
PF		06-MAY-2002;	2002US-00140474.	PR	21-MAR-2000;	2000WO-US007332.
XX				PR	30-MAR-2000;	2000WO-US008139.
PR		31-MAR-1997;	97WO-US005230.	PR	17-MAY-2000;	2000WO-US013705.
PR		12-JUN-1998;	98WO-US012456.	PR	22-MAY-2000;	2000WO-US014042.
PR		14-JUL-1998;	98WO-US014552.	PR	30-MAY-2000;	2000WO-US015164.
PR		28-AUG-1998;	98WO-US017888.	PR	02-JUN-2000;	2000WO-US020110.
PR		10-SEP-1998;	98WO-US018824.	PR	28-JUL-2000;	2000WO-US022331.
PR		14-SEP-1998;	98WO-US19093.	PR	11-AUG-2000;	2000WO-US022331.
PR		14-SEP-1998;	98WO-US019094.	PR	23-AUG-2000;	2000WO-US023122.
PR		14-SEP-1998;	98WO-US019177.	PR	24-AUG-2000;	2000WO-US023328.
PR		16-SEP-1998;	98WO-US019330.	PR	08-NOV-2000;	2000WO-US030552.
PR		17-SEP-1998;	98WO-US019437.	PR	10-NOV-2000;	2000WO-US03073.
PR		07-OCT-1998;	98WO-US021141.	PR	01-DEC-2000;	2000WO-US032778.
PR		29-OCT-1998;	98WO-US022991.	PR	20-DEC-2000;	2000US-00747359.
PR		29-OCT-1998;	98WO-US022992.	PR	20-DEC-2000;	2000WO-US034356.
PR		20-NOV-1998;	98WO-US024855.	PR	28-FEB-2001;	2001WO-US006520.
PR		01-DEC-1998;	98WO-US025108.	PR	01-MAR-2001;	2001WO-US00666.
PR		05-JAN-1999;	99WO-US001106.	PR	09-MAR-2001;	2001US-0080205.
PR		08-MAR-1999;	99WO-US003028.	PR	14-MAR-2001;	2001US-0080889.
PR		10-MAR-1999;	99WO-US003190.	PR	22-MAR-2001;	2001US-00816744.
PR		14-MAR-1999;	99WO-US006115.	PR	01-APR-2001;	2001US-00828166.
PR		02-JUN-1999;	99WO-US012252.	PR	10-MAY-2001;	2001US-0085408.
PR		08-SEP-1999;	99WO-US020111.	PR	10-MAY-2001;	2001US-0085480.
PR		13-SEP-1999;	99WO-US020594.	PR	18-MAY-2001;	2001US-0086016.
PR		15-SEP-1999;	99WO-US021090.	PR	25-MAY-2001;	2001US-0086528.
PR		05-OCT-1999;	99WO-US021547.	PR	25-MAY-2001;	2001US-00866334.
PR		30-NOV-1999;	99WO-US023313.	PR	25-MAY-2001;	2001WO-US017992.
PR		30-NOV-1999;	99WO-US028409.	PR	01-JUN-2001;	2001US-00872035.
PR		01-DEC-1999;	99WO-US028301.	PR	01-JUN-2001;	2001WO-US017900.
PR		02-DEC-1999;	99WO-US028634.	PR	03-JUN-2001;	2001US-0087403.
PR		02-DEC-1999;	99WO-US028551.	PR	14-JUN-2001;	2001US-0088236.
PR		02-DEC-1999;	99WO-US028564.	PR	19-JUN-2001;	2001US-0086342.
PR		16-DEC-1999;	99WO-US028565.	PR	20-JUN-2001;	2001WO-US019692.
PR		16-DEC-1999;	99WO-US03095.	PR	21-JUN-2001;	2001US-00887879.
PR		20-DEC-1999;	99WO-US030911.	PR	22-JUN-2001;	2001WO-US020116.
PR		20-DEC-1999;	99WO-US03099.	PR	29-JUN-2001;	2001WO-US02166.
PR		20-DEC-1999;	99WO-US03099.	PR	09-JUL-2001;	2001WO-US021735.
PR		20-DEC-1999;	99WO-US03099.	PR	18-JUL-2001;	2001US-00908827.
PR		20-DEC-1999;	99WO-US03099.	PR	06-AUG-2001;	2001US-00924119.
PR		20-DEC-1999;	99WO-US03099.	PR	09-AUG-2001;	2001US-0092796.
PR		20-DEC-1999;	99WO-US03099.	PR	16-AUG-2001;	2001US-0093836.
PR		20-DEC-1999;	99WO-US03099.	PR	19-DEC-2001;	2001US-00028072.
XX	PA	(GBTB) GENENTECH INC.		PR	22-DEC-1999;	99WO-US030720.
XX	PA	Baker KP, Bereznini M, Deforge L, Desiraju G, Gao W, Gerritsen MG, Goddard A, Goodearl PJ, Gurney AL, Sherwood S, Smith V, Stewart TA, Tunas D, Wattanabe CK, Wood WI, Zhang Z;		PR	30-DEC-1999;	99WO-US031243.
XX	DR	WPI; 2003-341980/32.		PR	05-JAN-2000;	000WO-US000219.
XX	DR	N-PSDB; ACD23985.		PR	06-JAN-2000;	000WO-US000277.
XX	PT	New secreted and transmembrane PRO nucleic acids, for treating inflammation, organ failure, atherosclerosis, cardiac injury,		PR	11-FEB-2000;	2000WO-US003555.

PT infertility, birth defects, premature aging, acquired immunodeficiency
 PT syndrome (AIDS), or cancer.

PT
 XX
 PS
 XX

Claim 12; Fig 268; 660pp; English.

CC The invention describes an isolated nucleic acid (I) comprising, or which has 80 % sequence identity to, or the full-length coding sequence of, one CC polypeptide selected from 275 amino acid sequences, where all sequences CC are given in the specification. The polypeptide encoded by (I) is used to detect PRO polypeptides, link a bioactive molecule to a cell expressing a PRO polypeptide, modulate a biological activity of a cell, stimulate the release of tumour necrosis factor (TNF)-alpha from human blood, modulate the uptake of glucose or free fatty acid by cells, stimulate or inhibit the proliferation or differentiation of cells or gene expression, stimulate the release of proteoglycans, stimulate the binding of A-peptide from peripheral blood mononuclear cells, inhibit the binding of A-peptide to factor VIIa, or detect the presence of tumour in a mammal. The nucleic acid and polypeptide encoded by it are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, acquired immunodeficiency syndrome (AIDS), cancer, or diabetic complications. The nucleic acid is useful as hybridisation probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing. This is the amino acid sequence of a novel human secreted and transmembrane PRO polypeptide

XX Sequence 493 AA;

Query Match 99.9%; Score 2682; DB 6; Length 493;
 Best Local Similarity 99.8%; Pred. No. 1.4e-216;
 Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRPLCIVTCAWGLIAGAVGQEQPREGTEGSPPRFIYINRYKRAESQDKCTYTFIV 60
 Db 1 MRPLCIVTCAWGLIAGAVGQEQPREGTEGSPPRFIYINRYKRAESQDKCTYTFIV 60
 Qy 61 PQRVTGAIYCNSKEPVLUENRHKOELLENLNLKKQRCQETQLQVYKDPGIVSEV 120
 61 PQRVTGAIYCNSKEPVLUENRHKOELLENLNLKKQRCQETQLQVYKDPGIVSEV 120
 Qy 121 KURKESRMMSRVTOQIMOLJHEIRKRDNALELSQLENRLNQADMLQASKDLE 180
 121 KURKESRMMSRVTOQIMOLJHEIRKRDNALELSQLENRLNQADMLQASKDLE 180
 Db 181 HXYQHLATLAINQSEIQAQLEHQCQVPSARPVQPQPPAAPPVVQOPTINLQISTN 240
 181 HXYQHLATLAINQSEIQAQLEHQCQVPSARPVQPQPPAAPPVVQOPTINLQISTN 240
 Qy 241 EIOSDONLKVPPPLPMPMPTSLPSTDKSGPWRDCCLQLEDGDTSSITYLKPENTN 300
 241 EIOSDONLKVPPPLPMPMPTSLPSTDKSGPWRDCCLQLEDGDTSSITYLKPENTN 300
 Qy 301 RIMQWVCDQDRIDPGGMWVIIORLGDGSNNPFNWETYKQGENGTIDERYWIGIENYTWTLNQ 360
 301 RIMQWVCDQDRIDPGGMWVIIORLGDGSNNPFNWETYKQGENGTIDERYWIGIENYTWTLNQ 360
 Db 361 GNYKLUVTMEDNSGRKVFAYEASFRPEPESYYKULGRGKGNAGDSFTWNGKFTTD 420
 361 GNYKLUVTMEDNSGRKVFAYEASFRPEPESYYKULGRGKGNAGDSFTWNGKFTTD 420
 Qy 421 RHDVWIGCAIQKGGMWVACAHSLNGLWYRGRHYSYQDGTYWAERFGGYSIK 480
 421 RHDVWIGCAIQKGGMWVACAHSLNGLWYRGRHYSYQDGTYWAERFGGYSIK 480
 Db 421 RHDVWIGCAIQKGGMWVACAHSLNGLWYRGRHYSYQDGTYWAERFGGYSIK 480
 421 RHDVWIGCAIQKGGMWVACAHSLNGLWYRGRHYSYQDGTYWAERFGGYSIK 480
 Qy 481 VMMIRNPNTPH 493
 481 VMMIRNPNTPH 493

ID AB025150 standard; protein: 493 AA.
 XX
 AC AB025150;
 XX

DT 05-SEP-2003 (first entry)

DE Novel human secreted and transmembrane protein PRO196.
 XX

KW Human; secreted and transmembrane protein; PRO; antidiabetic; ophthalmological; cytostatic; immunostimulant; gene therapy; vascular endothelial growth factor inhibitor; hypertrophy of adult heart; protein secretion disorder; pancreas disorder; diabetes; vascular permeability; retinal neuron cell survival; retinal disorder; immune response; inflammation; mononuclear cell infiltration; eosinophil infiltration; apoptosis; neoplastic growth.

OS Homo sapiens.

PN US2003040014-A1.

XX

PDD 27-FEB-2003.

XX

PR 01-FEB-2002; 2002US-00066269.

XX

PR 26-AUG-1997; 97US-0056974P.

PR 17-SEP-1997; 97US-0059115P.

PR 19-SEP-1997; 97US-005958P.

PR 17-OCT-1997; 97US-006228P.

PR 24-OCT-1997; 97US-006215P.

PR 24-OCT-1997; 97US-006308P.

PR 27-OCT-1997; 97US-006339P.

PR 29-OCT-1997; 97US-006373P.

PR 21-NOV-1997; 97US-006636P.

PR 21-NOV-1997; 97US-006684P.

PR 16-DEC-1997; 97US-006969P.

PR 09-FEB-1998; 97US-007408P.

PR 09-FEB-1998; 97US-007409P.

PR 25-MAR-1998; 97US-007929P.

PR 08-APR-1998; 97US-008104P.

PR 14-JUL-1998; 97US-008145P.

PR 10-AUG-1998; 97US-009599P.

PR 18-AUG-1998; 97US-009700P.

PR 09-SEP-1998; 97US-009960P.

PR 10-SEP-1998; 97US-009980P.

PR 10-SEP-1998; 97US-009981P.

PR 10-SEP-1998; 97US-009981P.

PR 10-SEP-1998; 97US-009981P.

PR 14-SEP-1998; 97US-0018824.

PR 14-SEP-1998; 97US-0018824.

PR 16-SEP-1998; 97US-0019330.

PR 17-SEP-1998; 97US-010081P.

PR 17-SEP-1998; 97US-0101943.

PR 24-SEP-1998; 97US-010122P.

PR 28-OCT-1998; 97US-0106032P.

PR 20-NOV-1998; 97US-0109304P.

PR 20-NOV-1998; 97US-024855.

PR 25-NOV-1998; 97US-025150.

PR 01-DEC-1998; 97US-025150.

PR 08-MAR-1999; 97US-025052P.

PR 23-MAR-1999; 97US-025052P.

PR 02-JUN-1999; 97US-05012282.

PR 15-JUN-1999; 97US-0136965P.

PR 20-JUL-1999; 97US-0145070P.

PR 26-JUL-1999; 97US-0145698P.

PR 17-AUG-1999; 97US-0149365P.

PR 01-SEP-1999; 97US-020111.

PR 08-SEP-1999; 97US-0202054.

PR 15-SEP-1999; 97US-0211090.

PR 30-NOV-1999; 97US-021547.

PR 01-DEC-1999; 97US-028301.

PR 02-DEC-1999; 97US-02855.

PR 07-DEC-1999; 97US-0169495P.

PR 12-JUN-1998; 98WO-US01452. CC (e.g., stroke, heart attack). Anti-PRO antibodies are useful in diagnostic assays for PRO, by detecting its expression in specific cells, tissues or serum, and for affinity purification of PRO from recombinant cell culture or natural sources. ABUS080-AS0814 represent the human PRO polypeptides of the invention. Note: The sequence data for this patent was obtained in electronic format directly from the USPTO web site at seqdata.uspto.gov/psipdbentry.html.

XX SQ Sequence 493 AA:

Query Match

Best Local Similarity 99.9%; Score 2682; DB 6; Length 493;

Matches 492; Conservative 1; Mismatches 0; Indexes 0; Gaps 0;

QY 1 MRPLCLVCTWMLGLIAANGAVAGAOEDGEGTEGSPPRFIYANRYKPGESODKCTYTFIV 60

Db 1 MRPLCLVCTWMLGLIAANGAVAGAOEDGEGTEGSPPRFIYANRYKPGESODKCTYTFIV 60

QY 61 PQRVTGACIVNSKEPEVILERVRHKPELELLNELLKQKQIETIQLQVVKDGG31VSEY 120

Db 61 PQORVTGACIVNSKEPEVILERVRHKPELELLNELLKQKQIETIQLQVVKDGG31VSEY 120

QY 121 KULRKESAMNSRVTQLYMOLIHEIRKRDNALELQOLENLINQADMLQASXKDL 180

Db 121 KULRKESAMNSRVTQLYMOLIHEIRKRDNALELQOLENLINQADMLQASXKDL 180

QY 181 HKYQHLAGTIAHNOSIEIAQLEBHQCRVPFSARPVQPSPPAAPPVQOPTYRININSTN 240

Db 181 HKYQHLAGTIAHNOSIEIAQLEBHQCRVPFSARPVQPSPPAAPPVQOPTYRININSTN 240

QY 241 EIOSDNQTKVLPPPLPMTLTSPLSSTDKSGGPWPDICLQALEDGHDITSSITYLVPEINTN 300

Db 241 EIOSDNQTKVLPPPLPMTLTSPLSSTDKSGGPWPDICLQALEDGHDITSSITYLVPEINTN 300

QY 301 RLMQVWCDQRHPGGWTIQRLDGSTNPFRNWETYKQGENIDGWGLIENTITLNQ 360

Db 301 RLMQVWCDQRHPGGWTIQRLDGSTNPFRNWETYKQGENIDGWGLIENTITLNQ 360

QY 361 GNYKLVTTMEDWSGRKFAEYASFRLEPESEYKLRGVRHGNAGDSFTWNGKOPTLTD 420

Db 361 GNYKLVTTMEDWSGRKFAEYASFRLEPESEYKLRGVRHGNAGDSFTWNGKOPTLTD 420

QY 421 RDHYVYCNCAHQGKGMWYNAHSAHSLNGWYRGHHSYQDGWYAFERGGSYIK 480

Db 421 RDHYVYCNCAHQGKGMWYNAHSAHSLNGWYRGHHSYQDGWYAFERGGSYIK 480

QY 481 VVMIRNPNTF 493

Db 481 VVMIRNPNTF 493

Search completed: July 30, 2004, 12:36:14
Job time : 57 secs

(GETH) GENENTECH INC.

PA XX

PT Baker RP, Beresini M, Deforge L, Filvaroff E, Gao W;

PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;

PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

XX DR N-PSIB; AGB67127.

XX

PT New isolated PRO polypeptide useful for treating diabetes, rheumatoid arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or heart attack.

XX

PS Claim 12; Fig 268; 64pp; English.

XX

The present invention relates to the isolation of novel human PRO polypeptides, and the polynucleotide sequences encoding them. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides and polynucleotides are useful for preparing a medicament useful in the treatment of diabetes, bone and/or cartilage disorders (e.g. rheumatoid arthritis, sports injuries, osteoarthritis), obesity, hyper- or hypo-insulinaemia, hearing loss, and coagulation disorders

QY 121 KURKESRNNRSVTOLYMLHEIKRDNALELSLENRINTQADMQLASKYDLE 180
; Db 121 KURKESRNNRSVTOLYMLHEIKRDNALELSLENRINTQADMQLASKYDLE 180
; QY 181 HKYQHLATLAHNGSEITAQOLEEHQCRVPSARVPQPAPPAVRVQOPTNRIINQISTN 240
; Db 181 HKYQHLATLAHNGSEITAQOLEEHQCRVPSARVPQPAPPAVRVQOPTNRIINQISTN 240
; QY 241 EIOSDQNKLKVLPPLPIMPLTSLPSSTDKESGPWRCIQALEDGHDTSYLVKENTN 300
; Db 241 EIOSDQNKLKVLPPLPIMPLTSLPSSTDKESGPWRCIQALEDGHDTSYLVKENTN 300
; QY 301 RLMQWVCDQRHDPGGWTVIQRRLDGSVNFRWETYHQFGNIDGTYWLGLENITYLNTQ 360
; Db 301 RLMQWVCDQRHDPGGWTVIQRRLDGSVNFRWETYHQFGNIDGTYWLGLENITYLNTQ 360
; QY 361 GNYKLUVLTMEDNSGRKVFAYEASFRLPESEYKLRG-YIGNAGDSFTWINGKOPTLD 420
; Db 361 GNYKLUVLTMEDNSGRKVFAYEASFRLPESEYKLRG-YIGNAGDSFTWINGKOPTLD 420
; QY 421 RDHDVYTGCAHYQKGWWYNACAHSNLNGWYRGHHYRSYQDGWYWAERGGSYSLKK 480
; Db 421 RDHDVYTGCAHYQKGWWYNACAHSNLNGWYRGHHYRSYQDGWYWAERGGSYSLKK 480
; QY 481 VMMIRPNNTFH 493
; Db 481 VMMIRPNNTFH 493
; RESULT 2
; Sequence 2, Application US/08960507
; Patent No. 6057435
; GENERAL INFORMATION:
; APPLICANT: Godowski, Paul J.
; TITLE OF INVENTION: Tie ligands
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; APPLICANT: Gurney, Austin L.
; ADDRESS: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,507
; ATTORNEY/AGENT INFORMATION:
; FILING DATE:
; CLASSIFICATION: 536
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 49 amino acids
; REFERENCE/DOCKET NUMBER: P1130P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/222-3216
; TELEX: 650/952-9881
; US-08-960-507-2

QY 1 MRPLCVTCWVLGLIAAMGAVASOEGDFFGTEEGSPRFIFLYRKAGESODKCTYTFIV 60
; Db 1 MRPLCVTCWVLGLIAAMGAVASOEGDFFGTEEGSPRFIFLYRKAGESODKCTYTFIV 60
; QY 61 PQORTGATCYSKEPVILENRVKPELELANNELLKQKRCIETIQLQVLUVQDGGSVE 120
; Db 61 PQORTGATCYSKEPVILENRVKPELELANNELLKQKRCIETIQLQVLUVQDGGSVE 120
; QY 121 KURKESRNNRSVTOLYMLHEIKRDNALELSLENRINTQADMQLASKYDLE 180
; Db 121 KURKESRNNRSVTOLYMLHEIKRDNALELSLENRINTQADMQLASKYDLE 180
; QY 181 HKYQHLATLAHNGSEITAQOLEEHQCRVPSARVPQPAPPAVRVQOPTNRIINQISTN 240
; Db 181 HKYQHLATLAHNGSEITAQOLEEHQCRVPSARVPQPAPPAVRVQOPTNRIINQISTN 240
; QY 241 EIOSDQNKLKVLPPLPIMPLTSLPSSTDKESGPWRCIQALEDGHDTSYLVKENTN 300
; Db 241 EIOSDQNKLKVLPPLPIMPLTSLPSSTDKESGPWRCIQALEDGHDTSYLVKENTN 300
; QY 301 RLMQWVCDQRHDPGGWTVIQRRLDGSVNFRWETYHQFGNIDGTYWLGLENITYLNTQ 360
; Db 301 RLMQWVCDQRHDPGGWTVIQRRLDGSVNFRWETYHQFGNIDGTYWLGLENITYLNTQ 360
; QY 361 GNYKLUVLTMEDNSGRKVFAYEASFRLPESEYKLRG-YIGNAGDSFTWINGKOPTLD 420
; Db 361 GNYKLUVLTMEDNSGRKVFAYEASFRLPESEYKLRG-YIGNAGDSFTWINGKOPTLD 420
; QY 421 RDHDVYTGCAHYQKGWWYNACAHSNLNGWYRGHHYRSYQDGWYWAERGGSYSLKK 480
; Db 421 RDHDVYTGCAHYQKGWWYNACAHSNLNGWYRGHHYRSYQDGWYWAERGGSYSLKK 480
; QY 481 VMMIRPNNTFH 493
; Db 481 VMMIRPNNTFH 493
; RESULT 3
; Sequence 2, Application US/09136828
; Patent No. 6350450
; GENERAL INFORMATION:
; APPLICANT: Godowski, Paul J.
; TITLE OF INVENTION: Tie ligands
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; APPLICANT: Gurney, Austin L.
; ADDRESS: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/136,828
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Ginger R.
; REGISTRATION NUMBER: 33,055
; REFERENCE/DOCKET NUMBER: P1130R1A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/222-3215
; TELEX: 650/952-9881
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 49 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
; US-08-960-507-2
; Query Match Score: 99.9%; Length: 493; Best Local Similarity: 99.8%; Pred. No.: 4.8e-220; Matches: 492; Conservative: 1; Mismatches: 0; Indels: 0; Gaps: 0;

TOPOLOGY: Linear
US-09-136-828-2

Query Match 99.9%; Score 2682; DB 4; Length 493;
Best Local Similarity 99.8%; Pred. No. 4.8e-220; Indels 0; Gaps 0;
Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLCITCWGILAAAGAVGQEQGEGFEGSPREIFYLNRYKRAGESQDKCTYTFV
Db 1 MRPLCITCWGILAAAGAVGQEQGEGFEGSPREIFYLNRYKRAGESQDKCTYTFV 60

QY 61 PQQRTGACVNKEPEVLLNRVKOELLENLKQROETIQLQVKGIVSEV 120
Db 61 PQQRTGACVNKEPEVLLNRVKOELLENLKQROETIQLQVKGIVSEV 120

QY 121 KLLRKESRNNRSRVTLQMLHEITRKROMAELSQLENRLNQTAADMQLASKYKDE 180
Db 121 KLLRKESRNNRSRVTLQMLHEITRKROMAELSQLENRLNQTAADMQLASKYKDE 180

QY 181 HKYQHATLAHNQSEIIAQLEBHQVRPSARPVOPPPAAPRVPQPTYNRINTN 240
Db 241 EIQSDONLKVUPLPPTMPTLTSPLSSTDKSGPWRDCLOALEDGHDTSSIVLKVENTN 300

QY 301 RIMQWCDQAHPEGWTVIQRRLDGSVNFRNMYTYKQGEONIDGEYWLQIYLINQISTN 360
Db 301 RIMQWCDQAHPEGWTVIQRRLDGSVNFRNMYTYKQGEONIDGEYWLQIYLINQISTN 360

QY 361 GNYKLUVTMDWSGRKVEAYASPRLEPESEVYKLRIGRYHNGAGDSFTWNGKFTLD 420
Db 421 RDHDVYTGNCAHYOKGGWVNACAHNSNLYWVRRGHHRSYQDGTVWAERFGGSYSKK 480

QY 481 VMMIRPNPNTFH 493
Db 481 VMMIRPNPNTFH 493

RESULT 4
US-09-332-928A-2

Sequence 2, Application US/09332928A
Patent No. 6368853

GENERAL INFORMATION:

APPLICANT: Godowski, Paul J.
TITLE OF INVENTION: Gurney, Austin L.
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/332, 928A
FILING DATE: 14-Jun-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/933, 821
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:

TOPOLOGY: Linear
US-09-332-928A-2

Query Match 99.9%; Score 2682; DB 4; Length 493;
Best Local Similarity 99.8%; Pred. No. 4.8e-220; Indels 0; Gaps 0;
Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLCITCWGILAAAGAVGQEQGEGFEGSPREIFYLNRYKRAGESQDKCTYTFV
Db 1 MRPLCITCWGILAAAGAVGQEQGEGFEGSPREIFYLNRYKRAGESQDKCTYTFV 60

QY 61 PQQRTGACVNKEPEVLLNRVKOELLENLKQROETIQLQVKGIVSEV 120
Db 61 PQQRTGACVNKEPEVLLNRVKOELLENLKQROETIQLQVKGIVSEV 120

QY 121 KLLRKESRNNRSRVTLQMLHEITRKROMAELSQLENRLNQTAADMQLASKYKDE 180
Db 121 KLLRKESRNNRSRVTLQMLHEITRKROMAELSQLENRLNQTAADMQLASKYKDE 180

QY 181 HKYQHATLAHNQSEIIAQLEBHQVRPSARPVOPPPAAPRVPQPTYNRINTN 240
Db 241 EIQSDONLKVUPLPPTMPTLTSPLSSTDKSGPWRDCLOALEDGHDTSSIVLKVENTN 300

QY 301 RIMQWCDQAHPEGWTVIQRRLDGSVNFRNMYTYKQGEONIDGEYWLQIYLINQISTN 360
Db 301 RIMQWCDQAHPEGWTVIQRRLDGSVNFRNMYTYKQGEONIDGEYWLQIYLINQISTN 360

QY 361 GNYKLUVTMDWSGRKVEAYASPRLEPESEVYKLRIGRYHNGAGDSFTWNGKFTLD 420
Db 421 RDHDVYTGNCAHYOKGGWVNACAHNSNLYWVRRGHHRSYQDGTVWAERFGGSYSKK 480

QY 481 VMMIRPNPNTFH 493
Db 481 VMMIRPNPNTFH 493

RESULT 5
US-09-136-801-2

Sequence 2, Application US/09136801
Patent No. 6413770

GENERAL INFORMATION:

APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin
APPLICANT: Hillian, Kenneth
APPLICANT: Botstein, David
APPLICANT: Goddard, Andrew
APPLICANT: Roy, Margaret
APPLICANT: Ferrara, Napoleone
APPLICANT: Tumas, Daniel
APPLICANT: Schwab, Ralph
TITLE OF INVENTION: Tie Ligand Homologues
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way ; GENERAL INFORMATION:
 CITY: South San Francisco ; APPLICANT: Godowski, Paul J.
 STATE: California ; APPLICANT: Gurney, Austin L.
 COUNTRY: USA ; TITLE OF INVENTION: Tie Ligands
 ZIP: 94080 ; NUMBER OF SEQUENCES: 17

COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Winpatin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/136,801

FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Dreger, Ginger R.
 REGISTRATION NUMBER: 33,055
 REFERENCE/DOCKET NUMBER: P1130P2

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650/425-3216
 TELEFAX: 650/952-9881
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 493 amino acids
 TYPE: Amino Acid
 TOPOLOGY: Linear
 US-09-136-801-2

Query Match 99.9% Score 2682; DB 4; Length 493;
 Best Local Similarity 99.8%; Pred. No. 4 8e-220;
 Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY ||||| MRPLCVTCWGLGAAAGAVAOEDGEGTTEGSPPRFILNRYKRAESODKCTYTFIV 60
 1 MRPLCVTCWGLGAAAGAVAOEDGEGTTEGSPPRFILNRYKRAESODKCTYTFIV 60
 Db 1 MRLQWVCDORHPGGWTIQRLLDGSNFPRNWETYKQGRNIDGEGWYLQENIYLNTQ 360
 Qy 61 PQORVTGAI CVNSKEPEVLEVRVKOBELELLANELKKQKQIETQQLVKUDGGIVSEV 120
 ||||| PQORVTGAI CVNSKEPEVLEVRVKOBELELLANELKKQKQIETQQLVKUDGGIVSEV 120
 Db 61 PQORVTGAI CVNSKEPEVLEVRVKOBELELLANELKKQKQIETQQLVKUDGGIVSEV 120
 Qy 121 KLRKESRNMNSRVTOQYMLHEIRRKDALESOLENRLINQADMLQASKYDIE 180
 ||||| KLRKESRNMNSRVTOQYMLHEIRRKDALESOLENRLINQADMLQASKYDIE 180
 Db 121 KLRKESRNMNSRVTOQYMLHEIRRKDALESOLENRLINQADMLQASKYDIE 180
 Qy 181 HRYQHQLAHMHOSETIAQLEBHCORVPSARVPQPAPPAAPRVPVOPPTNRIINQSTN 240
 ||||| HRYQHQLAHMHOSETIAQLEBHCORVPSARVPQPAPPAAPRVPVOPPTNRIINQSTN 240
 Db 181 HRYQHQLAHMHOSETIAQLEBHCORVPSARVPQPAPPAAPRVPVOPPTNRIINQSTN 240
 Qy 241 EIOSDONQKVLPPPLPMTLSPSSTDKGSPWPWDCLQALEDGHDTSIYLVPENTN 300
 ||||| EIOSDONQKVLPPPLPMTLSPSSTDKGSPWPWDCLQALEDGHDTSIYLVPENTN 300
 Db 241 EIOSDONQKVLPPPLPMTLSPSSTDKGSPWPWDCLQALEDGHDTSIYLVPENTN 300
 Qy 241 EIOSDONQKVLPPPLPMTLSPSSTDKGSPWPWDCLQALEDGHDTSIYLVPENTN 300
 Db 301 RLMOQWCDORHPGGWTIQRLLDGSNFPRNWETYKQGRNIDGEGWYLQENIYLNTQ 360
 Qy 301 RLMOQWCDORHPGGWTIQRLLDGSNFPRNWETYKQGRNIDGEGWYLQENIYLNTQ 360
 Db 361 GNYKLUTMEDNSGRKFAEYASFRLEPESEYKUQLGRHGNAGDSFTWNGKOTILD 420
 ||||| GNYKLUTMEDNSGRKFAEYASFRLEPESEYKUQLGRHGNAGDSFTWNGKOTILD 420
 Db 361 GNYKLUTMEDNSGRKFAEYASFRLEPESEYKUQLGRHGNAGDSFTWNGKOTILD 420
 Qy 361 GNYKLUTMEDNSGRKFAEYASFRLEPESEYKUQLGRHGNAGDSFTWNGKOTILD 420
 Db 421 RDHDVYTCNAHQKGWWYNACAHSNLNGWYRGHHRSYQDGWYAERFGGSYSLK 480
 ||||| RDHDVYTCNAHQKGWWYNACAHSNLNGWYRGHHRSYQDGWYAERFGGSYSLK 480
 Qy 421 RDHDVYTCNAHQKGWWYNACAHSNLNGWYRGHHRSYQDGWYAERFGGSYSLK 480
 Db 481 VMMIRNPNTFH 493
 Db 481 VMMIRNPNTFH 493
 Qy 361 GNYKLUTMEDNSGRKFAEYASFRLEPESEYKUQLGRHGNAGDSFTWNGKOTILD 420
 Db 421 RDHDVYTCNAHQKGWWYNACAHSNLNGWYRGHHRSYQDGWYAERFGGSYSLK 480
 Db 421 RDHDVYTCNAHQKGWWYNACAHSNLNGWYRGHHRSYQDGWYAERFGGSYSLK 480
 RESULT 6

US-09-332-929-2
 Sequence 2, Application US/09332929
 ; Patent No. 6420542

QY 481 VMMIRENPNTFH 493
Db 481 VMMIRENPNTFH 493

RESULT 7
US-09-333-075-2
Sequence 2, Application US/09333075
GENERAL INFORMATION:
APPLICANT: Godowski, Paul J.
TITLE OF INVENTION: Tie Ligands
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94180

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPat (Genentech)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/333,075
FILING DATE:
CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/933,821
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Drexler, Ginger R.
REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: P1130
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-3215
TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 493 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-09-333-075-2

Query Match 99.9%; Score 2682; DB 4; Length 493;
Best Local Similarity 99.8%; Pred. No. 4 8e-220;
Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLCVTCWGLIAGAVAGQEDGFGTETEGSPREFTYLNRYKRAGESQDKCTYTFIV 60
Db 1 MRPLCVTCWGLIAGAVAGQEDGFGTETEGSPREFTYLNRYKRAGESQDKCTYTFIV 60

QY 61 PQORTGATCVNSKEPEVILENVRKPELELNLNLKQKQIETQQLVQDGGIVSEV 120
Db 61 PQORTGATCVNSKEPEVILENVRKPELELNLNLKQKQIETQQLVQDGGIVSEV 120

QY 121 KLLRKESRNNRSVTOLYQMLHIIIRKRDNAELSOLENRLNQTADMQLASKYKDE 180
Db 121 KLLRKESRNNRSVTOLYQMLHIIIRKRDNAELSOLENRLNQTADMQLASKYKDE 180

QY 181 HKYQHLATLAHNQSBITIAQLEHHQCRVPARSARVQPPRPAAPPRVYQPTYNRINQISTN 240
Db 181 HKYQHLATLAHNQSBITIAQLEHHQCRVPARSARVQPPRPAAPPRVYQPTYNRINQISTN 240

QY 241 EIOSDNQKLVPPLPPTMPLTSLPSSTDKPGPWRCQLAQEDGHDTSSYLVKPENTN 300
Db 241 EIOSDNQKLVPPLPPTMPLTSLPSSTDKPGPWRCQLAQEDGHDTSSYLVKPENTN 300

QY 301 RLMOQWCQDRHDPGWTIVORRLDGSVNFRNWETYKQGFENIDGEGYWLGLENLYWLNO 360
Db 301 RLMOQWCQDRHDPGWTIVORRLDGSVNFRNWETYKQGFENIDGEGYWLGLENLYWLNO 360

RESULT 8
US-09-202-088A-2
Sequence 2, Application US/09202088A
GENERAL INFORMATION:
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillian, Kenneth
APPLICANT: Botstein, David
APPLICANT: Goddard, Audrey
APPLICANT: Roy, Margaret
APPLICANT: Petrar, Napoleone
APPLICANT: Tunas, Daniel
TITLE OF INVENTION: TIE LIGAND HOMOLOGUES
FILE REFERENCE: P1130P3US
CURRENT APPLICATION NUMBER: US/09/202,088A
PRIORITY NUMBER: PCT/US98/19093
PRIORITY FILING DATE: 1998-09-14
NUMBER OF SEQ ID NOS: 35
SEQ ID NO 2
LENGTH: 493
TYPE: PRT
ORGANISM: Homo Sapiens
US-09-202-088A-2

Query Match 99.9%; Score 2682; DB 4; Length 493;
Best Local Similarity 99.8%; Pred. No. 4.8e-220;
Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLCVTCWGLIAGAVAGQEDGFGTETEGSPREFTYLNRYKRAGESQDKCTYTFIV 60
Db 1 MRPLCVTCWGLIAGAVAGQEDGFGTETEGSPREFTYLNRYKRAGESQDKCTYTFIV 60

QY 61 PQORTGATCVNSKEPEVILENVRKPELELNLNLKQKQIETQQLVQDGGIVSEV 120
Db 61 PQORTGATCVNSKEPEVILENVRKPELELNLNLKQKQIETQQLVQDGGIVSEV 120

QY 121 KLLRKESRNNRSVTOLYQMLHIIIRKRDNAELSOLENRLNQTADMQLASKYKDE 180
Db 121 KLLRKESRNNRSVTOLYQMLHIIIRKRDNAELSOLENRLNQTADMQLASKYKDE 180

QY 181 HKYQHLATLAHNQSBITIAQLEHHQCRVPARSARVQPPRPAAPPRVYQPTYNRINQISTN 240
Db 181 HKYQHLATLAHNQSBITIAQLEHHQCRVPARSARVQPPRPAAPPRVYQPTYNRINQISTN 240

QY 301 RLMOQWCQDRHDPGWTIVORRLDGSVNFRNWETYKQGFENIDGEGYWLGLENLYWLNO 360
Db 301 RLMOQWCQDRHDPGWTIVORRLDGSVNFRNWETYKQGFENIDGEGYWLGLENLYWLNO 360

QY 361 GNYKLVLTMEDWSGRKAYEASRLEPESEYYKLRGRHGNAGDSFTWINGKQFTLD 420
Db 361 GNYKLVLTMEDWSGRKAYEASRLEPESEYYKLRGRHGNAGDSFTWINGKQFTLD 420

QY 421 RDHVYUTGCAHYQGGWYNACHSNINGVWRRGHRSRYDGVWAERGGSYLK 480
Db 421 RDHVYUTGCAHYQGGWYNACHSNINGVWRRGHRSRYDGVWAERGGSYLK 480

QY 481 VMMIRENPNTFH 493
Db 481 VMMIRENPNTFH 493

Db 361 GNYKLVLTMDWSGRKVFAFEYASFRLEPESEVYKLRLUGRYHGNAGSFTWNGKQFTLD 420 QY 421 RDHDVYTGCAHORGGMWNACAHNSNINGVMWRGGYRSRQDGVWAERFGGSILKK 480 Db 421 RDHDVYTGCAHORGGMWNACAHNSNINGVMWRGGYRSRQDGVWAERFGGSILKK 480 QY 481 WMMIRPNNTFH 493 Db 481 WMMIRPNNTFH 493

RESULT 9
US-09-333-077-2
Sequence 2, Application US/09333077
; GENERAL INFORMATION:
; Patent No. 6586397
; APPLICANT: Godowski, Paul J.
; INVENTOR: Guiney, Austin L.
; TITLE OF INVENTION: Tie Ligands
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
ZIP: 94800

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/333,077
FILING DATE: US/09/333,077
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/933,821
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33, 055
REFERENCE/DOCKET NUMBER: P1130
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-3216
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 493 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-09-333-077-2

Query Match 99.9%; Score 2682; DB 4; Length 493;
Best Local Similarity 99.8%; Pred. No. 4.8e-220;
Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLCLVTCWMLGLAAMGAVAQEDGEDEGGTGSREFYLRYRAGESQDKCITYEV 60 Db 1 MRPLCLVTCWMLGLAAMGAVAQEDGEDEGGTGSREFYLRYRAGESQDKCITYEV 60

QY 61 PQORTGAIACVNKEPVULERVHKQBJELNNEJKQKREIETQQLVKUDGIVSEV 120 Db 61 PQORTGAIACVNKEPVULERVHKQBJELNNEJKQKREIETQQLVKUDGIVSEV 120

QY 121 KLLRKESRMNSRVTQJLYMOLHEITRKRDNAELSOLENRINTQADMQLASKYKDL 180 Db 121 KLLRKESRMNSRVTQJLYMOLHEITRKRDNAELSOLENRINTQADMQLASKYKDL 180

QY 181 HKYQHLATLHNQSEIAQLESCHCOPSPARPVPPRPAAPRVIQPTTRNQISTH 240 Db 181 HKYQHLATLHNQSEIAQLESCHCOPSPARPVPPRPAAPRVIQPTTRNQISTH 240

QY 181 HKYQHLATLHNQSEIAQLESCHCOPSPARPVPPRPAAPRVIQPTTRNQISTH 240

RESULT 10
US-08-933-821-4
Sequence 4, Application US/08933821
; Patent No. 597238
; GENERAL INFORMATION:
; APPLICANT: Godowski, Paul J.
; TITLE OF INVENTION: Tie Ligands
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
ZIP: 94800

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/933,821
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33, 055
REFERENCE/DOCKET NUMBER: P1130
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-3216
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 491 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-08-933-821-4

Query Match 56.1%; Score 1507.5; DB 2; Length 491;
Best Local Similarity 58.6%; Pred. No. 5e-120;
Matches 290; Conservative 69; Mismatches 109; Indels 27; Gaps 9;

QY 9 WMLGLLAAMGAVAQEDGEDEGGTGSREFYLRYRAGESQDKCITYEV 61 Db 6 WTLGLFLVFLVDPFGHCQ-----GOFKIKKINQRYRATERBEEAKKAYFLV 56

QY 62 QORTGAIACVNKEPVULERVHKQBJELNNEJKQKREIETQQLVKUDGIVSEV 120 Db 57 EQRITGPICVNKGQDASTIKOMITRADLENKDVLSRQKBEIDVQIWLWVDGNTNEV 116

QY 121 KLLRKESRMNSRVTQJLYMOLHEITRKRDNAELSOLENRINTQADMQLASKYKDL 180

Query Match 56.1%; Score 1507.5; DB 4; Length 491;
 Best Local Similarity 58.6%; Pred. No. 5e-120; Mismatches 109; Indels 27; Gaps 9;
 Matches 290; Conservative 69;

Qy 9 WNLGILAAAGAVAGQEDPREGTIEGSPREF---IYLNRYKRAAGESQD--KCTVTFIVP 61
 Db 6 WTLGVLFILLVDTHCRG-----QQFKIKKINORRYPRATDKKEAKKCAVFLV 56

Qy 62 QORVTGACVNKEPEV-LLENVRHKPELEELLNLKQKQIETQOLVKYDGIVSEV 120
 Db 57 EORITGPICVNKTQGDASTIKOMITRUDLENLKVDRIDVLQVVDGNIYNEV 116

Qy 121 KLLRKESRMNSRVTQLMQLHLERIKRDNALLESOLENRLNQADMQLASKYKDL 180
 Db 117 KLLRKESRMNSRVTQLMQLHLERIKRDNALLESOLENRLNQADMQLASKYKDL 176

Qy 181 HKYQHLATLAHNOSEITAQLEEHQCORPSARVPQPP--AAPRVPQPTNINIQ 237
 Db 177 VKASLTDLVNNQSVMITLEQCLRFSPRQTHVSPPLQVWPOH--PNSQOYTFGL 234

Qy 238 SNTBIOSDNL--KVLPDP-LPTMPTT--SPPSSTDPKSGEWRDCLQALEGDHTSIV 292
 Db 235 GGNBIQRPGYPRDMPPLATSPTSPKPPVTPINEGFKDCQQAEGHVGSIY 294

Qy 293 LVPKENTRLMQWCDDHDPGAWTVQRLDGSVNFRNWTYKQCGFGNDGEYNGL 352
 Db 295 MIKPENSNQPMQLCNCNSLDPGGTWVQKRTGSVNPFRNWTYKQCGFGNDGEYNGL 354

Qy 353 NIWLNTQGNYKLUTMDWSRKVFPEASRLPESSEYYKLGRHYHGADSTWHN 412
 Db 355 NIWLNSQDNQNYKULIELDBSDKRVAYSSRLEPESFVRLRGTYQGNADSMWHN 414

Qy 413 GKQTTLDRDHVTGCAHYQGGWYNACHSNINGWVWRGGHRSYODGVWAER 472
 Db 415 GKQTTLDRDKDMYAGNCNAHFHKGGWYNACAHNSNINGWVWRGGHRSKHDGFWAEYR 474

Qy 473 GGSYSLKKVMMRP 487
 Db 475 GGSYSLRAVQMMIKP 489

RESULT 13
 US-09-332-928A-4

; Sequence 4, Application US/09332928A
 ; Patent No. 6308853

GENERAL INFORMATION:
 APPLICANT: Godowski, Paul J.
 Gurney, Austin L.
 TITLE OF INVENTION: Tie Ligands
 NUMBER OF SEQUENCES: 17
 CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.
 STREET: 1 DNA Way
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080

COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WinPatin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/332-928A
 FILING DATE: 14-June-1999
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/933, 821
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Dreger, Ginger R.
 REGISTRATION NUMBER: 33, 055

REFERENCE/DOCKET NUMBER: P1130
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650/222-3216

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 491 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-332-928A-4

Query Match 56.1%; Score 1507.5; DB 4; Length 491;
 Best Local Similarity 58.6%; Pred. No. 5e-120; Mismatches 109; Indels 27; Gaps 9;
 Matches 290; Conservative 69;

Qy 9 WNLGILAAAGAVAGQEDPREGTIEGSPREF---IYLNRYKRAAGESQD--KCTVTFIVP 61
 Db 6 WTLGVLFILLVDTHCRG-----QQFKIKKINORRYPRATDKKEAKKCAVFLV 56

Qy 62 QORVTGACVNKEPEV-LLENVRHKPELEELLNLKQKQIETQOLVKYDGIVSEV 120
 Db 57 EORITGPICVNKTQGDASTIKOMITRUDLENLKVDRIDVLQVVDGNIYNEV 116

Qy 121 KLLRKESRMNSRVTQLMQLHLERIKRDNALLESOLENRLNQADMQLASKYKDL 180
 Db 117 KLLRKESRMNSRVTQLMQLHLERIKRDNALLESOLENRLNQADMQLASKYKDL 176

Qy 181 HKYQHLATLAHNOSEITAQLEEHQCORPSARVPQPP--AAPRVPQPTNINIQ 237
 Db 177 VKASLTDLVNNQSVMITLEQCLRFSPRQTHVSPPLQVWPOH--PNSQOYTFGL 234

Qy 238 SNTBIOSDNL--KVLPDP-LPTMPTT--SPPSSTDPKSGEWRDCLQALEGDHTSIV 292
 Db 235 GGNBIQRPGYPRDMPPLATSPTSPKPPVTPINEGFKDCQQAEGHVGSIY 294

Qy 293 LVPKENTRLMQWCDDHDPGAWTVQRLDGSVNFRNWTYKQCGFGNDGEYNGL 352
 Db 295 MIKPENSNQPMQLCNCNSLDPGGTWVQKRTGSVNPFRNWTYKQCGFGNDGEYNGL 354

Qy 353 NIWLNTQGNYKLUTMDWSRKVFPEASRLPESSEYYKLGRHYHGADSTWHN 412
 Db 355 NIWLNSQDNQNYKULIELDBSDKRVAYSSRLEPESFVRLRGTYQGNADSMWHN 414

Qy 413 GKQTTLDRDHVTGCAHYQGGWYNACHSNINGWVWRGGHRSYODGVWAER 472
 Db 415 GKQTTLDRDKDMYAGNCNAHFHKGGWYNACAHNSNINGWVWRGGHRSKHDGFWAEYR 474

Qy 473 GGSYSLKKVMMRP 487
 Db 475 GGSYSLRAVQMMIKP 489

RESULT 14
 US-09-136-801-4

; Sequence 4, Application US/09136801
 ; Patent No. 6413770

GENERAL INFORMATION:
 APPLICANT: Godowski, Paul J.
 Gurney, Austin L.
 APPLICANT: Hillian, Kenneth
 APPLICANT: Bottstein, David
 APPLICANT: Goddard, Audrey
 APPLICANT: Roy, Margaret
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Tumas, Daniel
 APPLICANT: Schwall, Ralph
 TITLE OF INVENTION: Tie Ligand Homologues
 NUMBER OF SEQUENCES: 35
 CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.
 STREET: 1 DNA Way
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080

STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/136,801
FILING DATE:
CLASSIFICATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: P1130P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-3216
TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
LENGTH: 491 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-09-136-801-4

Query Match 56.1%; Score 1507.5; DB 4; Length 491;
Best Local Similarity 58.6%; Pred. No. 5e-120; Mismatches 109; Indels 27; Gaps 9;
Matches 290; Conservative 69; MisMatches 109; Indels 27; Gaps 9;

QY 9 WNLGLLAMGAVAGAQEDGFGEGSPREF---IYLNRYKRAGESQD--KCTYTFIVP 61
Db 6 WTIGVFLIVDIGHCRG-----GQFKIKKINRKYRPRATGKEAKKGAYTFIVP 56

QY 62 QQRVTGALCVNSKREPV-LLENRVHKQBLEELNNELLQKQRETIQOLVYDGGIVSEV 120
Db 57 EQRITGPICVNTKQDASTIKOMITRMDLENKLVDLSQREIDVLQJVUDGNIVNEV 116

QY 121 KLUKRESRNMRSVTOOLYQMLHETIRKRDNLSLESLQENLNQADMLQASKYDLE 180
Db 117 KLUKRESRNMRSVTOOLYQMLHETIRKRDNLSLESLQENLNQADMLQASKYDLE 176

QY 181 HKYQHLATLAHNOSSETIAQUEHHCORVSPARPVQPQQP---AAPRIVYQOPTYRILNQI 237

Db 177 VKVASLTDLVNOVSMTILLEBQCLRTSRDQHIVSPPLVQVVFQH----PNSQQTYPGL 234

QY 238 STNETQSDONL-KVLPPP-LPTMPMTT-SLSSTDDPSPGRDQIQALEDHTSII 292

Db 235 GENEIQDRPGYRDLMPDPDATSPTSKPKPPVFINEGPFKOCQQAKEAGHSVGIY 294

QY 293 LVKPENTNRLMQWCDQRHDPGGWTVIQRRLDGSVNFRNNTYKQGFGNIDGEYWIGLE 352

Db 295 MIKPENSNGPMQWLCENSLSDPGGWTVIQKRTDGSVNFRRNENYKKGPGNIDGEWIGLE 354

QY 353 NYIWLTHQGNQYKLVMTMEDWSGRKVEAYAFLEREESEYYKLRIGRYHGNAGDSFTWHN 412

Db 355 NIYMLSNQDNYKULIEEDWSKDKVYAEYSPLPESEPEFRLRGTYQGNGDSMMWHN 414

QY 413 GKOFTTLDRDHVYTGNCAHYOKGGWMWYACAHNSNLNGWYRGHRSYQDGVWAER 472

Db 415 GKOFTTLDRDKOMYAGNCAGFHKGGMWNACAHNSLNGWYRGHRSKHDGIFWAER 474

QY 473 GGYSILKQVMWTRP 487

Db 475 GESYSLRAVOMMKP 489

RESULT 15
US-09-332-929-4
; Sequence 4, Application US/09332929
; Patent No. 6420542
; GENERAL INFORMATION:
; APPLICANT: Godowski, Paul J.

APPLICANT: Gurney, Austin L.
TITLE OF INVENTION: Tie Ligands
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/332,929
FILING DATE:
CLASSIFICATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: P1130
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/933,821
FILING DATE:
TELEPHONE: 650/225-3216
TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
LENGTH: 491 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-09-332-929-4

Query Match 56.1%; Score 1507.5; DB 4; Length 491;
Best Local Similarity 58.6%; Pred. No. 5e-120; Mismatches 109; Indels 27; Gaps 9;
Matches 290; Conservative 69; MisMatches 109; Indels 27; Gaps 9;

QY 9 WNLGLLAMGAVAGAQEDGFGEGSPREF---IYLNRYKRAGESQD--KCTYTFIVP 61
Db 6 WTIGVFLIVDIGHCRG-----GQFKIKKINRKYRPRATGKEAKKGAYTFIVP 56

QY 62 QQRVTGALCVNSKREPV-LLENRVHKQBLEELNNELLQKQRETIQOLVYDGGIVSEV 120
Db 57 EQRITGPICVNTKQDASTIKOMITRMDLENKLVDLSQREIDVLQJVUDGNIVNEV 116

QY 121 KLUKRESRNMRSVTOOLYQMLHETIRKRDNLSLESLQENLNQADMLQASKYDLE 180
Db 117 KLUKRESRNMRSVTOOLYQMLHETIRKRDNLSLESLQENLNQADMLQASKYDLE 176

QY 181 HKYQHLATLAHNOSSETIAQUEHHCORVSPARPVQPQQP---AAPRIVYQOPTYRILNQI 237

Db 177 VKVASLTDLVNOVSMTILLEBQCLRTSRDQHIVSPPLVQVVFQH----PNSQQTYPGL 234

QY 238 STNETQSDONL-KVLPPP-LPTMPMTT-SLSSTDDPSPGRDQIQALEDHTSII 292

Db 235 GENEIQDRPGYRDLMPDPDATSPTSKPKPPVFINEGPFKOCQQAKEAGHSVGIY 294

QY 293 LVKPENTNRLMQWCDQRHDPGGWTVIQRRLDGSVNFRNNTYKQGFGNIDGEYWIGLE 352

Db 295 MIKPENSNGPMQWLCENSLSDPGGWTVIQKRTDGSVNFRRNENYKKGPGNIDGEWIGLE 354

QY 353 NYIWLTHQGNQYKLVMTMEDWSGRKVEAYAFLEREESEYYKLRIGRYHGNAGDSFTWHN 412

Db 355 NIYMLSNQDNYKULIEEDWSKDKVYAEYSPLPESEPEFRLRGTYQGNGDSMMWHN 414

QY 413 GKOFTTLDRDHVYTGNCAHYOKGGWMWYACAHNSNLNGWYRGHRSYQDGVWAER 472

Db 415 GKOFTTLDRDKOMYAGNCAGFHKGGMWNACAHNSLNGWYRGHRSKHDGIFWAER 474

QY 473 GGYSILKQVMWTRP 487

Db 475 GESYSLRAVOMMKP 489

Mon Aug 9 10:30:09 2004

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Page 10

|||||: | | | :|
Db 475 GGSYSLRAVQMMTKP 489

Search completed: July 30, 2004, 12:38:31
Job time : 21 secs

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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: July 30, 2004, 12:37:34 ; Search time 46 Seconds
 (without alignments)
 3361.863 Million cell updates/sec

Title: US-10-018-386-2

Perfect score: 2686

Sequence: 1 MRPLCVTCWHLGLLAAMGAV.....GSYSLLKKVVMIRPNPNTFH 493

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1291235 seqs, 313682936 residues

Total number of hits satisfying chosen parameters: 1291235

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Published Applications AA.*

1 http://www.compugetech.com/ncbi/nrcomp.htm *

16 2682 99.9 493 12 US-10-131-8201-268 Sequence 268, APP
 17 2682 99.9 493 12 US-10-142-8886-268 Sequence 268, APP
 18 2682 99.9 493 12 US-10-146-78-268 Sequence 268, APP
 19 2682 99.9 493 12 US-10-146-786-268 Sequence 268, APP
 20 2682 99.9 493 12 US-10-147-499-268 Sequence 268, APP
 21 2682 99.9 493 12 US-10-147-791-268 Sequence 268, APP
 22 2682 99.9 493 13 US-10-066-500-4 Sequence 4, Appli
 23 2682 99.9 493 14 US-10-028-071-268 Sequence 268, APP
 24 2682 99.9 493 14 US-10-121-041-268 Sequence 268, APP
 25 2682 99.9 493 14 US-10-123-04-268 Sequence 268, APP
 26 2682 99.9 493 14 US-10-140-470-268 Sequence 268, APP
 27 2682 99.9 493 14 US-10-175-746-268 Sequence 268, APP
 28 2682 99.9 493 14 US-10-176-918-268 Sequence 268, APP
 29 2682 99.9 493 14 US-10-176-921-268 Sequence 268, APP
 30 2682 99.9 493 14 US-10-003-796-4 Sequence 4, Appli
 31 2682 99.9 493 14 US-10-006-273-4 Sequence 4, Appli
 32 2682 99.9 493 14 US-10-066-94-4 Sequence 4, Appli
 33 2682 99.9 493 14 US-10-137-865-268 Sequence 268, APP
 34 2682 99.9 493 14 US-10-140-474-268 Sequence 268, APP
 35 2682 99.9 493 14 US-10-142-411-268 Sequence 268, APP
 36 2682 99.9 493 14 US-10-143-114-268 Sequence 268, APP
 37 2682 99.9 493 14 US-10-149-002-268 Sequence 4, Appli
 38 2682 99.9 493 14 US-10-066-269-4 Sequence 4, Appli
 39 2682 99.9 493 14 US-10-066-211-4 Sequence 4, Appli
 40 2682 99.9 493 14 US-10-066-193-4 Sequence 4, Appli
 41 2682 99.9 493 14 US-10-142-419-268 Sequence 268, APP
 42 2682 99.9 493 14 US-10-123-62-268 Sequence 268, APP
 43 2682 99.9 493 14 US-10-142-423-268 Sequence 268, APP
 44 2682 99.9 493 14 US-10-121-050-268 Sequence 268, APP
 45 2682 99.9 493 14 US-10-141-755-268 Sequence 268, APP

QY 181 HRYQHLLTAAHNOSEITIAQLEHCORPSPARVPPQPPAAPPVYOPTNIRINQISTN 240
Db 181 HRYQHLLTAAHNOSEITIAQLEHCORPSPARVPPQPPAAPPVYOPTNIRINQISTN 240
QY 241 ELOSDONKLKVPPPLPTMPTLTSPLSPSSNDKSGPWUDCLQALEGDHTSSYLVPENTN 300
Db 241 ELOSDONKLKVPPPLPTMPTLTSPLSPSSNDKSGPWUDCLQALEGDHTSSYLVPENTN 300
QY 301 RLMQWVCDQRHPGGWTVIQRLLDGSTNFRMWTYKQGFTNTDSEBYWGLIENTWLHQ 360
Db 301 RLMQWVCDQRHPGGWTVIQRLLDGSTNFRMWTYKQGFTNTDSEBYWGLIENTWLHQ 360
QY 361 GNYKLUITMMDSGRKTFAYISPRLEPESEYKLRGLRIGVAGNSFTNGKPTTD 420
Db 361 GNYKLUITMMDSGRKTFAYISPRLEPESEYKLRGLRIGVAGNSFTNGKPTTD 420
QY 421 RDHDVYTGCAHYOKGGWWYNACAHSHNLNGWYRGHYSRYQDGWTAERGGSYSLKK 480
Db 421 RDHDVYTGCAHYOKGGWWYNACAHSHNLNGWYRGHYSRYQDGWTAERGGSYSLKK 480
QY 481 VMMIRPNPNTFH 493
Db 481 VMMIRPNPNTFH 493

RESULT 2
US-09-832-355A-113
Sequence 113, Application US/09832355A
Publication No. US20030027751A1
GENERAL INFORMATION:
APPLICANT: Kovacs, Imre
APPLICANT: Kessler, Paul
TITLE OF INVENTION: VEGF FUSION PROTEINS
FILE REFERENCE: 205654
CURRENT APPLICATION NUMBER: US/09/832,355A
CURRENT FILING DATE: 2001-04-10
NUMBER OF SEQ ID NOS: 126
SEQ ID NO 13
LENGTH: 493
TYPE: PRT
ORGANISM: Homo sapiens
US-09-832-355A-113

Query Match 99.9%; Score 2682; DB 10; Length 493;
Best Local Similarity 99.8%; Pred. No. 4.9e-210; Indels 0; Gaps 0;
Matches 492; Conservative 1; Mismatches 0; Delins 0;

QY 1 MRPLCVTCWLGILAMGAVAOEDGEDEGTEGSPPRFIVLYRKAGESODKCTYTFIV 60
Db 1 MRPLCVTCWLGILAMGAVAOEDGEDEGTEGSPPRFIVLYRKAGESODKCTYTFIV 60
QY 61 PQORVTGAIICVNSKEPEVLEVRHKOELLENNELKKQROETIQOLVKUDGIVSEV 120
Db 61 PQORVTGAIICVNSKEPEVLEVRHKOELLENNELKKQROETIQOLVKUDGIVSEV 120
QY 121 KJURKEGRMNRSRVTOYLMQLHEITKRDNALESOLENRLNQADMLQASKYDIE 180
Db 121 KJURKEGRMNRSRVTOYLMQLHEITKRDNALESOLENRLNQADMLQASKYDIE 180
QY 181 HRYQHLLTAAHNOSEITIAQLEHCORPSPARVPPQPPAAPPVYOPTNIRINQISTN 240
Db 181 HRYQHLLTAAHNOSEITIAQLEHCORPSPARVPPQPPAAPPVYOPTNIRINQISTN 240
QY 241 ELOSDONKLKVPPPLPTMPTLTSPLSPSSNDKSGPWUDCLQALEGDHTSSYLVPENTN 300
Db 241 ELOSDONKLKVPPPLPTMPTLTSPLSPSSNDKSGPWUDCLQALEGDHTSSYLVPENTN 300
QY 301 RLMQWVCDQRHPGGWTVIQRLLDGSTNFRMWTYKQGFTNTDSEBYWGLIENTWLHQ 360
Db 301 RLMQWVCDQRHPGGWTVIQRLLDGSTNFRMWTYKQGFTNTDSEBYWGLIENTWLHQ 360
QY 361 GNYKLUITMMDSGRKTFAYISPRLEPESEYKLRGLRIGVAGNSFTNGKPTTD 420

RESULT 3
US-09-983-000A-8
Sequence 8, Application US/09983000A
Publication No. US20030118585A1
GENERAL INFORMATION:
APPLICANT: AGY Therapeutics
APPLICANT: Mueller, Sabine
APPLICANT: Chin, Daniel
TITLE OF INVENTION: USE OF PROTEIN BIOMOLECULAR TARGETS IN THE TREATMENT AND VISUALIZATION OF BRAIN TUMORS
FILE REFERENCE: 263/180 - Pagelein -- AGY
CURRENT APPLICATION NUMBER: US/09/983,000A
CURRENT FILING DATE: 2001-10-17
NUMBER OF SEQ ID NOS: 35
SOFTWARE: Patentin version 3.1
SEQ ID NO 8
LENGTH: 493
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: gene
LOCATION: (1)..(493)
OTHER INFORMATION: Angiopoietin-like 2 (ANGPTL2), protein
NAME/KEY: SIGNAL
NAME/KEY: DOMAIN
LOCATION: (1)..(22)
OTHER INFORMATION: Potential
NAME/KEY: CHAIN
LOCATION: (152)..(206)
OTHER INFORMATION: (23)..(493)
NAME/KEY: ANGIOPOIETIN-RELATED PROTEIN 2
NAME/KEY: DOMAIN
LOCATION: (76)..(115)
OTHER INFORMATION: Coiled coil (potential)
NAME/KEY: DOMAIN
LOCATION: (152)..(206)
OTHER INFORMATION: Coiled coil (potential)
NAME/KEY: DOMAIN
LOCATION: (438)..(450)
OTHER INFORMATION: Fibronogen C-terminal
NAME/KEY: CARBOHYD
LOCATION: (164)..(164)
OTHER INFORMATION: N-linked (GLCNAC...) (potential)
NAME/KEY: CARBOHYD
LOCATION: (192)..(192)
OTHER INFORMATION: N-linked (GLCNAC...) (potential)
US-09-983-000A-8

Query Match 99.9%; Score 2682; DB 10; Length 493;
Best Local Similarity 99.8%; Pred. No. 4.9e-210; Indels 0; Gaps 0;
Matches 492; Conservative 1; Mismatches 0; Delins 0;

QY 1 MRPLCVTCWLGILAMGAVAOEDGEDEGTEGSPPRFIVLYRKAGESODKCTYTFIV 60
Db 1 MRPLCVTCWLGILAMGAVAOEDGEDEGTEGSPPRFIVLYRKAGESODKCTYTFIV 60
QY 61 PQORVTGAIICVNSKEPEVLEVRHKOELLENNELKKQROETIQOLVKUDGIVSEV 120
Db 61 PQORVTGAIICVNSKEPEVLEVRHKOELLENNELKKQROETIQOLVKUDGIVSEV 120

Db 121 KLRKESRNMNSRVTOLYMOLHEITRKDNALELSOLENRLNQTAADMLOLASKYDLE 180
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 181 HKYQHILATLAHNOSEIAQLEBHCORVPSARPVPQPPAAPPVYQPPTYRNINQISTN 240
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 181 HKYQHILATLAHNOSEIAQLEBHCORVPSARPVPQPPAAPPVYQPPTYRNINQISTN 240
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 241 EIQSDONKVLVPPPLPTMPLTSLPSSTDKPSGPWRCIDQALEDHTSIIYLVKPENTN 300
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 241 EIQSDONKVLVPPPLPTMPLTSLPSSTDKPSGPWRCIDQALEDHTSIIYLVKPENTN 300
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 301 RLMQWCDQRHDGGWTVIORLDSVNFFRNWETYKQGFGNDGEYWGLENIYLWTQ 360
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 301 RLMQWCDQRHDGGWTVIORLDSVNFFRNWETYKQGFGNDGEYWGLENIYLWTQ 360
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 361 GNYKLIVTMEDWSGRKVKAYASFRLEPESEYYKLRLGRYHNAQGDSFTWHNGKFTLD 420
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 361 GNYKLIVTMEDWSGRKVKAYASFRLEPESEYYKLRLGRYHNAQGDSFTWHNGKFTLD 420
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 421 RDHDVYTGNCAHYOKGSMWYNACAHNSNINGWYRGHYSRYQDGVWAEFRGSYSLKK 480
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 421 RDHDVYTGNCAHYOKGSMWYNACAHNSNINGWYRGHYSRYQDGVWAEFRGSYSLKK 480
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 421 RDHDVYTGNCAHYOKGSMWYNACAHNSNINGWYRGHYSRYQDGVWAEFRGSYSLKK 480
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 481 VMMIRPNPNTH 493
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 481 VMMIRPNPNTH 493
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 RESULT 4
 US-10-147-493-268
 ; Sequence 268, Application US/10147493
 ; Publication No. US20040029217A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanebe, Colin K.
 ; APPLICANT: Wood, William
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; ACIDS ENCODING THE SAME
 ; FILE REFERENCE: P333.RIC345
 ; CURRENT APPLICATION NUMBER: US/10/147,493
 ; CURRENT FILING DATE: 2002-05-17
 ; Prior Application removed - See File Wrapper or Palm
 ; NUMBER OF SEQ ID NOS: 550
 ; SEQ ID NO: 268
 ; LENGTH: 493
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-10-147-493-268
 Query Match 99.9%; Score 2682; DB 12; Length 493;
 Best Local Similarity 99.8%; Pred. No. 4.9e-10; Mismatches 0; Indels 0; Gaps 0;
 Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MRPLCVTCWGLLAMAVAGOEDGEGTEBGSPPRFIYLNRYKRAGESQDKCTYTFIV 60
 Db 1 MRPLCVTCWGLLAMAVAGOEDGEGTEBGSPPRFIYLNRYKRAGESQDKCTYTFIV 60
 Qy 61 PQQRVTGAIIVASKEPEVLENVRKOBELJNLKQKQIETQQJWVDDGIVSEV 120
 Db 61 PQQRVTGAIIVASKEPEVLENVRKOBELJNLKQKQIETQQJWVDDGIVSEV 120

RESULT 5
 US-10-145-127-268
 ; Sequence 268, Application US/10145127
 ; Publication No. US20040033558A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanebe, Colin K.
 ; APPLICANT: Wood, William
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; ACIDS ENCODING THE SAME
 ; FILE REFERENCE: P333.01C52
 ; CURRENT APPLICATION NUMBER: US/10/145,127
 ; CURRENT FILING DATE: 2002-05-13
 ; Prior Application removed - See File Wrapper or Palm
 ; NUMBER OF SEQ ID NOS: 550
 ; SEQ ID NO: 268
 ; LENGTH: 493
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-10-145-127-268
 Query Match 99.9%; Score 2682; DB 12; length 493;
 Best Local Similarity 99.8%; Pred. No: 4.9e-210; Mismatches 0; Indels 0; Gaps 0;
 Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MRPLCVTCWGLLAMAVAGOEDGEGTEBGSPPRFIYLNRYKRAGESQDKCTYTFIV 60
 Db 1 MRPLCVTCWGLLAMAVAGOEDGEGTEBGSPPRFIYLNRYKRAGESQDKCTYTFIV 60

QY 51 PQORTGAIKVNSKEPEVILENVRKOBLELNNELIKOKROETLQOLVKVKGIVSEV 120
Db 61 PQORTGAIKVNSKEPEVILENVRKOBLELNNELIKOKROETLQOLVKVKGIVSEV 120
Db 61 PQORTGAIKVNSKEPEVILENVRKOBLELNNELIKOKROETLQOLVKVKGIVSEV 120
QY 121 KLRKESRMNSRVTOLYMQHLERIKRDNAEELSQEINRINTQADMQLASKYDLE 180
Db 121 KLRKESRMNSRVTOLYMQHLERIKRDNAEELSQEINRINTQADMQLASKYDLE 180
QY 181 HKYQHLATLAHNOSEIIAQLEEHQRVRSARPVQOPPPAAPPVYQOPTYRINTQINQSTN 240
Db 181 HKYQHLATLAHNOSEIIAQLEEHQRVRSARPVQOPPPAAPPVYQOPTYRINTQINQSTN 240
QY 241 EIQSDQNKVLPPPLPTMLTSLPSIDKPSGPWRDCQALBDGHDTSSIYLVKENTN 300
Db 241 EIQSDQNKVLPPPLPTMLTSLPSIDKPSGPWRDCQALBDGHDTSSIYLVKENTN 300
QY 301 RLMQWVCDQRHPGGWTIQRRLDGSYNFRNWETYKQFGFNGIDGEYWLGENIYLWTNQ 360
Db 301 RLMQWVCDQRHPGGWTIQRRLDGSYNFRNWETYKQFGFNGIDGEYWLGENIYLWTNQ 360
QY 361 GNYKLVLTMEDNSGRKFAEYASFRPESEYYKLRGRHYGNAGSFTWNGKQFTLD 420
Db 361 GNYKLVLTMEDNSGRKFAEYASFRPESEYYKLRGRHYGNAGSFTWNGKQFTLD 420
QY 421 RDHVYTNCAHQKGWWYNACAHSNLNGWYRGHHYRSRYQDGVWAEFRGGSYSLIK 480
Db 421 RDHVYTNCAHQKGWWYNACAHSNLNGWYRGHHYRSRYQDGVWAEFRGGSYSLIK 480
QY 481 VMMIRPNPNTFH 493
Db 481 VMMIRPNPNTFH 493

RESULT 6
US-10-160-503-268
; Sequence 268, Application US/10160503
; Publication No. US/004003355A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
; FILE REFERENCE: P233 ORIC446
; CURRENT APPLICATION NUMBER: US/10/160,503
; CURRENT FILING DATE: 2002-05-30
; NUMBER OF SEQ ID NOS: 550
; SEC ID NO: 268
; LENGTH: 493
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-160-503-268

Query Match 99.9%; Score 2682; DB 12; Length 493;
Best Local Similarity 99.8%; Pred. No. 4_9e-210; Indels 0; Gaps 0;
Matches 492; Conservative 1; Mismatches 0; Number of SEQ ID NOS: 550

1 MRPLCVTCWMLGILAMGAVAOQEDGEGTEGSPRFIYLRYKARGESQDKCTYFIV 60
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

QY 1 MRLCVTCWMLGILAMGAVAOQEDGEGTEGSPRFIYLRYKARGESQDKCTYFIV 60
Db 61 PQORTGAIKVNSKEPEVILENVRKOBLELNNELIKOKROETLQOLVKVKGIVSEV 120
Db 61 PQORTGAIKVNSKEPEVILENVRKOBLELNNELIKOKROETLQOLVKVKGIVSEV 120
QY 121 KLRKESRMNSRVTOLYMQHLERIKRDNAEELSQEINRINTQADMQLASKYDLE 180
Db 121 KLRKESRMNSRVTOLYMQHLERIKRDNAEELSQEINRINTQADMQLASKYDLE 180
QY 181 HKYQHLATLAHNOSEIIAQLEEHQRVRSARPVQOPPPAAPPVYQOPTYRINTQINQSTN 240
Db 181 HKYQHLATLAHNOSEIIAQLEEHQRVRSARPVQOPPPAAPPVYQOPTYRINTQINQSTN 240
QY 241 EIQSDQNKVLPPPLPTMLTSLPSIDKPSGPWRDCQALBDGHDTSSIYLVKENTN 300
Db 241 EIQSDQNKVLPPPLPTMLTSLPSIDKPSGPWRDCQALBDGHDTSSIYLVKENTN 300
QY 301 RLMQWVCDQRHPGGWTIQRRLDGSYNFRNWETYKQFGFNGIDGEYWLGENIYLWTNQ 360
Db 301 RLMQWVCDQRHPGGWTIQRRLDGSYNFRNWETYKQFGFNGIDGEYWLGENIYLWTNQ 360
QY 361 GNYKLVLTMEDNSGRKFAEYASFRPESEYYKLRGRHYGNAGSFTWNGKQFTLD 420
Db 361 GNYKLVLTMEDNSGRKFAEYASFRPESEYYKLRGRHYGNAGSFTWNGKQFTLD 420
QY 421 RDHVYTNCAHQKGWWYNACAHSNLNGWYRGHHYRSRYQDGVWAEFRGGSYSLIK 480
Db 421 RDHVYTNCAHQKGWWYNACAHSNLNGWYRGHHYRSRYQDGVWAEFRGGSYSLIK 480
QY 481 VMMIRPNPNTFH 493
Db 481 VMMIRPNPNTFH 493

RESULT 7
US-10-143-118-258
; Sequence 268, Application US/10143118
; Publication No. US/004003835A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
; FILE REFERENCE: P233 ORIC446
; CURRENT APPLICATION NUMBER: US/10/143,118
; CURRENT FILING DATE: 2002-05-09
; NUMBER OF SEQ ID NOS: 550
; SEC ID NO: 268
; LENGTH: 493
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-143-118-268

Query Match 99.9%; Score 2682; DB 12; Length 493;
Best Local Similarity 99.8%; Pred. No. 4_9e-210; Indels 0; Gaps 0;
Matches 492; Conservative 1; Mismatches 0; Number of SEQ ID NOS: 550

Query Match 99.9% Score 2682; DB 12; Length 493;
 Best Local Similarity 99.8%; Pred. No. 4, 9e-210; Mismatches 0; Indels 0; Gaps 0;

Query	Match	Score	DB	Length
1 MRPLCUTCWMLGLAAMGAVAGQEDGPEGTPBGSPPRFINYKRAGESQDKCYTFIV	1 MRPLCUTCWMLGLAAMGAVAGQEDGPEGTPBGSPPRFINYKRAGESQDKCYTFIV	60	60	60
Db 1 MRPLCUTCWMLGLAAMGAVAGQEDGPEGTPBGSPPRFINYKRAGESQDKCYTFIV	Db 1 MRPLCUTCWMLGLAAMGAVAGQEDGPEGTPBGSPPRFINYKRAGESQDKCYTFIV	60	60	60
QY 61 PQRTVIGALCVNSKEPFVLNRVKQBLELNLKQKQETIQLQVYRVDGGIVSEV	QY 61 PQRTVIGALCVNSKEPFVLNRVKQBLELNLKQKQETIQLQVYRVDGGIVSEV	120	120	120
Db 61 PQRTVIGALCVNSKEPFVLNRVKQBLELNLKQKQETIQLQVYRVDGGIVSEV	Db 61 PQRTVIGALCVNSKEPFVLNRVKQBLELNLKQKQETIQLQVYRVDGGIVSEV	120	120	120
QY 121 KLRKESRNMSRVTOLYQMLHETRKDAELSOLENRLNQTAQMLQASKYDLE	QY 121 KLRKESRNMSRVTOLYQMLHETRKDAELSOLENRLNQTAQMLQASKYDLE	180	180	180
Db 121 KLRKESRNMSRVTOLYQMLHETRKDAELSOLENRLNQTAQMLQASKYDLE	Db 121 KLRKESRNMSRVTOLYQMLHETRKDAELSOLENRLNQTAQMLQASKYDLE	180	180	180
QY 181 HKYOHJLATLAHNSEITIAQLEEHQRVPSAQPVOPPAAPPRVYOPTNINQISTN	QY 181 HKYOHJLATLAHNSEITIAQLEEHQRVPSAQPVOPPAAPPRVYOPTNINQISTN	240	240	240
Db 181 HKYOHJLATLAHNSEITIAQLEEHQRVPSAQPVOPPAAPPRVYOPTNINQISTN	Db 181 HKYOHJLATLAHNSEITIAQLEEHQRVPSAQPVOPPAAPPRVYOPTNINQISTN	240	240	240
QY 241 EIQSDONLKVLPPLPPTMPLTSJPSSTDKGSPWDRDCQALEGDHTSITLVKENTN	QY 241 EIQSDONLKVLPPLPPTMPLTSJPSSTDKGSPWDRDCQALEGDHTSITLVKENTN	300	300	300
Db 241 EIQSDONLKVLPPLPPTMPLTSJPSSTDKGSPWDRDCQALEGDHTSITLVKENTN	Db 241 EIQSDONLKVLPPLPPTMPLTSJPSSTDKGSPWDRDCQALEGDHTSITLVKENTN	300	300	300
QY 301 RLMQWCDQDRHPGGWTVIQRRLDGSVNFPAWTFKQGFGNIDGEYWGLENIYLTNQ	QY 301 RLMQWCDQDRHPGGWTVIQRRLDGSVNFPAWTFKQGFGNIDGEYWGLENIYLTNQ	360	360	360
Db 301 RLMQWCDQDRHPGGWTVIQRRLDGSVNFPAWTFKQGFGNIDGEYWGLENIYLTNQ	Db 301 RLMQWCDQDRHPGGWTVIQRRLDGSVNFPAWTFKQGFGNIDGEYWGLENIYLTNQ	360	360	360
QY 361 GNYKLVLTMDWSGRKVFAEYASFRPLESEYYKURGRYHGNAGDSFTWNGKFTLD	QY 361 GNYKLVLTMDWSGRKVFAEYASFRPLESEYYKURGRYHGNAGDSFTWNGKFTLD	420	420	420
Db 361 GNYKLVLTMDWSGRKVFAEYASFRPLESEYYKURGRYHGNAGDSFTWNGKFTLD	Db 361 GNYKLVLTMDWSGRKVFAEYASFRPLESEYYKURGRYHGNAGDSFTWNGKFTLD	420	420	420
QY 421 RDHDVYTGNCAHYQKGGMWYNACAHSNINGWIRGGHRSRYODGVWAEFRGGSYSLKK	QY 421 RDHDVYTGNCAHYQKGGMWYNACAHSNINGWIRGGHRSRYODGVWAEFRGGSYSLKK	480	480	480
Db 421 RDHDVYTGNCAHYQKGGMWYNACAHSNINGWIRGGHRSRYODGVWAEFRGGSYSLKK	Db 421 RDHDVYTGNCAHYQKGGMWYNACAHSNINGWIRGGHRSRYODGVWAEFRGGSYSLKK	480	480	480
QY 481 VMMIRNPNTFH 493	QY 481 VMMIRNPNTFH 493	493	493	493
Db 481 VMMIRNPNTFH 493	Db 481 VMMIRNPNTFH 493	493	493	493

RESULT 8

US-10-144-993-268

; Sequence 268, Application US/10144993
 ; Publication No. US10040038336A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyer, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Gurney, Austin J.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tunas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

CURRENT APPLICATION NUMBER: US/10/144, 993

CURRENT FILING DATE: 2002-05-13

PRIOR APPLICATION removed - See File Wrapper or Palm

NUMBER OF SEQ ID NOS: 550

SEQ ID NO 268

LENGTH: 493

TYPE: PCT

ORGANISM: Homo Sapien

US-10-144-993-268

RESULT 9

US-10-158-787-268

; Sequence 268, Application US/10158787
 ; Publication No. US2004003164A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyer, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin J.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Tunas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

FILE REFERENCE: P3330R1C261

CURRENT APPLICATION NUMBER: US/10/158, 787

CURRENT FILING DATE: 2003-04-03

PRIOR APPLICATION NUMBER: 60/049911

PRIOR FILING DATE: 1997-06-18

PRIOR APPLICATION NUMBER: 60/056974

PRIOR FILING DATE: 1997-08-26

PRIOR APPLICATION NUMBER: 60/059113

PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059388
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 268
; LENGTH: 493
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-158-787-268

Query Match 99.9%; Score 2682; DB 12; Length 493;
Best Local Similarity 99.8%; Pseq. No. 4. 9e-210; Indels 0; Gaps 0;
Matches 492; Conservative 1; Mismatches 0;

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QY 1 MRPLCVTCAWGLGILAMGAVAGAOEDGEGTEGSPPRFIYLRYKAGEESDKCTYTFIV 60
Db 1 MRLCVTCAWGLGILAMGAVAGAOEDGEGTEGSPPRFIYLRYKAGEESDKCTYTFIV 60
QY 61 PQORVTGAIACVNSKEPEVILEVRHKOBELLENLKKQKROIETQOLVKUDGGIVSEV 120
Db 61 PQORVTGAIACVNSKEPEVILEVRHKOBELLENLKKQKROIETQOLVKUDGGIVSEV 120
QY 121 KLRKERSRNNRSVTQLYNQHLHEIRKRDALELSOLENRINQADMLQASKYDIE 180
Db 121 KLRKERSRNNRSVTQLYNQHLHEIRKRDALELSOLENRINQADMLQASKYDIE 180
QY 181 HKYQHATLAHNHOSEBIAQLEERHCQRPSPARPVOPPPAAPPVYOPPTNRIINSTN 240
Db 181 HKYQHATLAHNHOSEBIAQLEERHCQRPSPARPVOPPPAAPPVYOPPTNRIINSTN 240
QY 241 EIQSDQNKLVPPLPIMPUTSLSPSTDKGSPWMDCLQALEDGHTTSIYLKPENTN 300
Db 241 EIQSDQNKLVPPLPIMPUTSLSPSTDKGSPWMDCLQALEDGHTTSIYLKPENTN 300
QY 301 RLMOQWCDQRHDPGGWTVIQRRLDGSTNFRNWETKQGFTID 360
Db 301 RLMOQWCDQRHDPGGWTVIQRRLDGSTNFRNWETKQGFTID 360
QY 361 GNYKLUVMDNSGRKPFAYEASPRLEPESEYKLRIGYHGNAGSFTWNGKFTID 420
Db 361 GNYKLUVMDNSGRKPFAYEASPRLEPESEYKLRIGYHGNAGSFTWNGKFTID 420
QY 421 RDHDVYTGNCATYOKGSGWYNACAHNSLNQWYRGHHYRSYQDGWIAEFGGSYSLKK 480
Db 421 RDHDVYTGNCATYOKGSGWYNACAHNSLNQWYRGHHYRSYQDGWIAEFGGSYSLKK 480
QY 481 VMMIRNPNTFH 493
Db 481 VMMIRNPNTFH 493
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RESULT 10
US-10-140-024-268
; Sequence 268, Application US/10140024
; Publication No. US100400584241
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc

Query Match 99.9%; Score 2682; DB 12; Length 493;
Best Local Similarity 99.8%; Pseq. No. 4. 9e-210; Indels 0; Gaps 0;
Matches 492; Conservative 1; Mismatches 0;

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QY 1 MRPLCVTCAWGLGILAMGAVAGAOEDGEGTEGSPPRFIYLRYKAGEESDKCTYTFIV 60
Db 1 MRLCVTCAWGLGILAMGAVAGAOEDGEGTEGSPPRFIYLRYKAGEESDKCTYTFIV 60
QY 61 PQORVTGAIACVNSKEPEVILEVRHKOBELLENLKKQKROIETQOLVKUDGGIVSEV 120
Db 61 PQORVTGAIACVNSKEPEVILEVRHKOBELLENLKKQKROIETQOLVKUDGGIVSEV 120
QY 121 KLRKERSRNNRSVTQLYNQHLHEIRKRDALELSOLENRINQADMLQASKYDIE 180
Db 121 KLRKERSRNNRSVTQLYNQHLHEIRKRDALELSOLENRINQADMLQASKYDIE 180
QY 181 HKYQHATLAHNHOSEBIAQLEERHCQRPSPARPVOPPPAAPPVYOPPTNRIINSTN 240
Db 181 HKYQHATLAHNHOSEBIAQLEERHCQRPSPARPVOPPPAAPPVYOPPTNRIINSTN 240
QY 241 EIQSDQNKLVPPLPIMPUTSLSPSTDKGSPWMDCLQALEDGHTTSIYLKPENTN 300
Db 241 EIQSDQNKLVPPLPIMPUTSLSPSTDKGSPWMDCLQALEDGHTTSIYLKPENTN 300
QY 301 RLMOQWCDQRHDPGGWTVIQRRLDGSTNFRNWETKQGFTID 360
Db 301 RLMOQWCDQRHDPGGWTVIQRRLDGSTNFRNWETKQGFTID 360
QY 361 GNYKLUVMDNSGRKPFAYEASPRLEPESEYKLRIGYHGNAGSFTWNGKFTID 420
Db 361 GNYKLUVMDNSGRKPFAYEASPRLEPESEYKLRIGYHGNAGSFTWNGKFTID 420
QY 421 RDHDVYTGNCATYOKGSGWYNACAHNSLNQWYRGHHYRSYQDGWIAEFGGSYSLKK 480
Db 421 RDHDVYTGNCATYOKGSGWYNACAHNSLNQWYRGHHYRSYQDGWIAEFGGSYSLKK 480
QY 481 VMMIRNPNTFH 493
Db 481 VMMIRNPNTFH 493
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RESULT 11
US-10-140-808-268
; Sequence 268, Application US/101400808
; Publication No. US200300175631
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.

Publication No. US20030211571A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin P.
 APPLICANT: Beresini, Maureen
 APPLICANT: Desnoyers, Luc
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Sherwood, Steven
 APPLICANT: Stewart, Victoria
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K
 APPLICANT: Wood, William
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
 FILE REFERENCE: P3330R1C182
 CURRENT APPLICATION NUMBER: US/10/140,808
 CURRENT FILING DATE: 2002-05-07
 Prior Application removed - See File Wrapper or Palm
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO 268
 LENGTH: 493
 TYPE: PT
 ORGANISM: Homo Sapien
 US-10-140-808-268

Query Match 99.9%; Score 2682; DB 12; Length 493;
 Best Local Similarity 99.8%; Pred. No. 4.9e-210; Mismatches 0; Indels 0; Gaps 0;
 Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLCVTCWMLGLIAMAAGAVAGQEDGEGTERGSPREFIYVYKRAGESQDKCTYTFIV 60
 Db 1 MRPLCVTCWMLGLIAMAAGAVAGQEDGEGTERGSPREFIYVYKRAGESQDKCTYTFIV 60
 Qy 61 PQORVTGACIVCNKSEPEVILENRYHKQELLENLKLQKQIETQQLQVYDGGIVSEV 120
 Db 61 PQORVTGACIVCNKSEPEVILENRYHKQELLENLKLQKQIETQQLQVYDGGIVSEV 120
 Qy 121 KURKESRNNSRVTOYQMLHEIIRKDNAELSOLENLTQADMQLQASKYDLE 180
 Db 121 KURKESRNNSRVTOYQMLHEIIRKDNAELSOLENLTQADMQLQASKYDLE 180
 Qy 181 HYQHQLTALAHNQSEITIAQLEEHQRVSPARVQPPRVPYQPTYRINQSTN 240
 Db 181 HYQHQLTALAHNQSEITIAQLEEHQRVSPARVQPPRVPYQPTYRINQSTN 240
 Qy 241 EIQSNDQNLKULPPPLPTMPLTSLPSSTDKPSGPWRDCIQALEDGHDTSSLYLKPETN 300
 Db 241 EIQSNDQNLKULPPPLPTMPLTSLPSSTDKPSGPWRDCIQALEDGHDTSSLYLKPETN 300
 Qy 301 RLMQWCDQRHPGGWTVIQRRLDGSTNPFRWETYKQFGNIDGYWGLNENIYLTNQ 360
 Db 301 RLMQWCDQRHPGGWTVIQRRLDGSTNPFRWETYKQFGNIDGYWGLNENIYLTNQ 360
 Qy 361 GNYKLVLVTDWMSGRKVFAYASFRLEPESSEYYKLRGRYHNAGSFTWNGKQFTTD 420
 Db 361 GNYKLVLVTDWMSGRKVFAYASFRLEPESSEYYKLRGRYHNAGSFTWNGKQFTTD 420
 Qy 421 RDHDVYTGNCAHYQKGWYNACAHSNLSUNGWYRGHGRYRSYQDGTWAERGGSYSLKK 480
 Db 421 RDHDVYTGNCAHYQKGWYNACAHSNLSUNGWYRGHGRYRSYQDGTWAERGGSYSLKK 480
 Qy 481 VMMIRPNPNTFH 493
 Db 481 VMMIRPNPNTFH 493
 Qy 481 VMMIRPNPNTFH 493
 Db 481 VMMIRPNPNTFH 493

US-10-152-405-268

Query Match 99.9%; Score 2682; DB 12; Length 493;
 Best Local Similarity 99.8%; Pred. No. 4.9e-210; Mismatches 0; Indels 0; Gaps 0;
 Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRPLCVTCWMLGLIAMAAGAVAGQEDGEGTERGSPREFIYVYKRAGESQDKCTYTFIV 60
 Db 1 MRPLCVTCWMLGLIAMAAGAVAGQEDGEGTERGSPREFIYVYKRAGESQDKCTYTFIV 60
 Qy 61 PQORVTGACIVCNKSEPEVILENRYHKQELLENLKLQKQIETQQLQVYDGGIVSEV 120
 Db 61 PQORVTGACIVCNKSEPEVILENRYHKQELLENLKLQKQIETQQLQVYDGGIVSEV 120
 Qy 121 KURKESRNNSRVTOYQMLHEIIRKDNAELSOLENLTQADMQLQASKYDLE 180
 Db 121 KURKESRNNSRVTOYQMLHEIIRKDNAELSOLENLTQADMQLQASKYDLE 180
 Qy 181 HYQHQLTALAHNQSEITIAQLEEHQRVSPARVQPPRVPYQPTYRINQSTN 240
 Db 181 HYQHQLTALAHNQSEITIAQLEEHQRVSPARVQPPRVPYQPTYRINQSTN 240
 Qy 241 EIQSNDQNLKULPPPLPTMPLTSLPSSTDKPSGPWRDCIQALEDGHDTSSLYLKPETN 300
 Db 241 EIQSNDQNLKULPPPLPTMPLTSLPSSTDKPSGPWRDCIQALEDGHDTSSLYLKPETN 300
 Qy 301 RLMQWCDQRHPGGWTVIQRRLDGSTNPFRWETYKQFGNIDGYWGLNENIYLTNQ 360
 Db 301 RLMQWCDQRHPGGWTVIQRRLDGSTNPFRWETYKQFGNIDGYWGLNENIYLTNQ 360
 Qy 361 GNYKLVLVTDWMSGRKVFAYASFRLEPESSEYYKLRGRYHNAGSFTWNGKQFTTD 420
 Db 361 GNYKLVLVTDWMSGRKVFAYASFRLEPESSEYYKLRGRYHNAGSFTWNGKQFTTD 420
 Qy 421 RDHDVYTGNCAHYQKGWYNACAHSNLSUNGWYRGHGRYRSYQDGTWAERGGSYSLKK 480
 Db 421 RDHDVYTGNCAHYQKGWYNACAHSNLSUNGWYRGHGRYRSYQDGTWAERGGSYSLKK 480
 Qy 481 VMMIRPNPNTFH 493
 Db 481 VMMIRPNPNTFH 493

RESULT 13
 US-10-127-852A-268
 Sequence 268, Application US/10127852A
 Publication No. US20030203428A1.
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin P.
 APPLICANT: Beresini, Maureen
 APPLICANT: DeForge, Laura
 APPLICANT: Desnoyers, Luc
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Sherwood, Steven
 APPLICANT: Smith, Victoria
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tunas, Daniel
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Wood, William
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
 FILE REFERENCE: P3330R1C88
 CURRENT APPLICATION NUMBER: US/10/127, 852A
 CURRENT FILING DATE: 2002-10-15
 PRIOR APPLICATION NUMBER: 60/049911
 PRIOR FILING DATE: 1997-06-18
 PRIOR APPLICATION NUMBER: 60/056974
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 60/059113
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059115
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059117
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059122
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059184
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059283
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059352
 PRIOR FILING DATE: 1997-09-19
 PRIOR APPLICATION NUMBER: 60/059588
 PRIOR FILING DATE: 1997-09-19
 Remaining Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO 268
 LENGTH: 493
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-10-127-852A-268

Query Match Best Local Similarity 99.9%; Score 2682; DB 12; Length 493; Matches 492; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLCVTGWIGLILAMGAVAGOGEDGEETEGSPRFYIINYKRGAGESODKCTWTFIV 60
 Db 1 MRPLCVTGWIGLILAMGAVAGOGEDGEETEGSPRFYIINYKRGAGESODKCTWTFIV 60
 QY 61 PQQRVTGAIYCVNKEPEVILENRVKQBLIELNELLKKQHQIETQQLQVAKVDDGIVSEV 120
 Db 61 PQQRVTGAIYCVNKEPEVILENRVKQBLIELNELLKKQHQIETQQLQVAKVDDGIVSEV 120
 QY 121 KLRKESMNNSVYQTLQMLHEIKRDNALSLQENLNLNQADMDQMLASKYDLE 180
 Db 121 KLRKESMNNSVYQTLQMLHEIKRDNALSLQENLNLNQADMDQMLASKYDLE 180
 QY 181 HKYQHЛАЛННОСЕИАЛЕЕВСАРВПQPPAAPPVYQOPTYRINQISTN 240
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 14
 US-10-127-900A-268
 Sequence 268, Application US/10127900A
 Publication No. US2003020429A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin P.
 APPLICANT: Beresini, Maureen
 APPLICANT: DeForge, Laura
 APPLICANT: Desnoyers, Luc
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Sherwood, Steven
 APPLICANT: Smith, Victoria
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tunas, Daniel
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Wood, William
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
 FILE REFERENCE: P3330R1C81
 CURRENT APPLICATION NUMBER: US/10/127, 900A
 CURRENT FILING DATE: 2002-10-15
 PRIOR APPLICATION NUMBER: 60/049911
 PRIOR FILING DATE: 1997-06-18
 PRIOR APPLICATION NUMBER: 60/056974
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 60/059113
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059122
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059184
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059283
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059352
 PRIOR FILING DATE: 1997-09-19
 Remaining Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO 268

LENGTH: 493
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-127-900A-268
Query Match 99.9%; Score 2682; DB 12; Length 493;
Best Local Similarity 99.8%; Pred. No. 4.9e-210; Mismatches 0; Indels 0; Gaps 0;
Matches 492; Conservative 1; Mismatches 0;
Db 1 MRPLICVTWCWLGILAMGAVAGQEDPEGTEGSPEFITYKRAGESQDKCTYTFIV 60
1 MRPLICVTWCWLGILAMGAVAGQEDPEGTEGSPEFITYKRAGESQDKCTYTFIV 60
QY 61 PQQRVTGAIKVNSKEPVILLNRVHQKQLELLENKLQKQIETQQLVKDGGIVSEV 120
61 PQQRVTGAIKVNSKEPVILLNRVHQKQLELLENKLQKQIETQQLVKDGGIVSEV 120
Db 121 KLLRKESRNMNSRVTLRDRNALELSOLENRLINGTADMQLQASKYDIE 180
121 KLLRKESRNMNSRVTLRDRNALELSOLENRLINGTADMQLQASKYDIE 180
Db 181 HKYQHQLAHNHOSETIAOLEEHCORVSPARPVOPPPAAPPRVQOPTYRINTSN 240
181 HKYQHQLAHNHOSETIAOLEEHCORVSPARPVOPPPAAPPRVQOPTYRINTSN 240
Db 241 EIQSQNLKVLPPLPPTMPLTSPLSPSTDKSGPWRDCQALQALEGDHTSSILVKPENTN 300
241 EIQSQNLKVLPPLPPTMPLTSPLSPSTDKSGPWRDCQALQALEGDHTSSILVKPENTN 300
QY 301 RIMQWCDQRDHPGGWTVIQRRLDGSVNFRNWETYKQGFGNIDGEYIWGLENIYLTNO 360
301 RIMQWCDQRDHPGGWTVIQRRLDGSVNFRNWETYKQGFGNIDGEYIWGLENIYLTNO 360
Db 361 GNYKLUVMTMEDWSGRKVFAYEASPRLEPESEYYKURLRGYHGNAGDSFTWNGKQFTLD 420
361 GNYKLUVMTMEDWSGRKVFAYEASPRLEPESEYYKURLRGYHGNAGDSFTWNGKQFTLD 420
QY 421 RDHDVYTGNCAYQKGGMWYNACAHSNLINGWTRGGRHRSYQDGTYWAERFGSYSLKK 480
421 RDHDVYTGNCAYQKGGMWYNACAHSNLINGWTRGGRHRSYQDGTYWAERFGSYSLKK 480
Db 481 VWMIRNPNTFH 493
481 VWMIRNPNTFH 493
Db 481 VWMIRNPNTFH 493

RESULT 15
US-10-128-685A-268
; Sequence 268, Application US/10128685A
; Publication No. US20030203430A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Guney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2330RC16
CURRENT APPLICATION NUMBER: US/10/128, 685A
CURRENT FILING DATE: 2002-04-23

PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-13
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 268
LENGTH: 493
TYPE: PRT
ORGANISM: Homo Sapien
US-10-128-685A-268
Query Match 99.9%; Score 2682; DB 12; Length 493;
Best Local Similarity 99.8%; Pred. No. 4.9e-210; Mismatches 0; Indels 0; Gaps 0;
Matches 492; Conservative 1; Mismatches 0;
Db 1 MRPLICVTWCWLGILAMGAVAGQEDPEGTEGSPEFITYKRAGESQDKCTYTFIV 60
1 MRPLICVTWCWLGILAMGAVAGQEDPEGTEGSPEFITYKRAGESQDKCTYTFIV 60
QY 61 PQQRVTGAIKVNSKEPVILLNRVHQKQLELLENKLQKQIETQQLVKDGGIVSEV 120
61 PQQRVTGAIKVNSKEPVILLNRVHQKQLELLENKLQKQIETQQLVKDGGIVSEV 120
Db 121 KLLRKESRNMNSRVTLRDRNALELSOLENRLINGTADMQLQASKYDIE 180
121 KLLRKESRNMNSRVTLRDRNALELSOLENRLINGTADMQLQASKYDIE 180
Db 181 HKYQHQLAHNHOSETIAOLEEHCORVSPARPVOPPPAAPPRVQOPTYRINTSN 240
181 HKYQHQLAHNHOSETIAOLEEHCORVSPARPVOPPPAAPPRVQOPTYRINTSN 240
Db 241 EIQSQNLKVLPPLPPTMPLTSPLSPSTDKSGPWRDCQALQALEGDHTSSILVKPENTN 300
241 EIQSQNLKVLPPLPPTMPLTSPLSPSTDKSGPWRDCQALQALEGDHTSSILVKPENTN 300
Db 301 RIMQWCDQRDHPGGWTVIQRRLDGSVNFRNWETYKQGFGNIDGEYIWGLENIYLTNO 360
301 RIMQWCDQRDHPGGWTVIQRRLDGSVNFRNWETYKQGFGNIDGEYIWGLENIYLTNO 360
QY 361 GNYKLUVMTMEDWSGRKVFAYEASPRLEPESEYYKURLRGYHGNAGDSFTWNGKQFTLD 420
361 GNYKLUVMTMEDWSGRKVFAYEASPRLEPESEYYKURLRGYHGNAGDSFTWNGKQFTLD 420
Db 421 RDHDVYTGNCAYQKGGMWYNACAHSNLINGWTRGGRHRSYQDGTYWAERFGSYSLKK 480
421 RDHDVYTGNCAYQKGGMWYNACAHSNLINGWTRGGRHRSYQDGTYWAERFGSYSLKK 480
Db 481 VWMIRNPNTFH 493
481 VWMIRNPNTFH 493



A;Accession: B43568; A90469; B90469; I37389; A94433; A90437; A94309; G54223; A03121; B37
 R;Chung, D.W.; Harris, J.E.; Davie, E.W.
 A;Exp.: Med. Biol. 281, 39-48, 1990
 A;Title: Nucleotide sequences of the three genes coding for human fibrinogen.
 A;Reference number: A43568; MUID:91344740; PMID:2102623
 A;Accession: Ba3568
 A;Molecule type: DNA
 A;Residues: 9-191; 'P', 193-491 <CHU>
 R;Chung, D.W.; Que, B.G.; Nixon, M.W.; Mace Jr., M.; Davie, E.W.
 Biochemistry 22, 3444-3550, 1983
 A;Title: Characterization of complementary deoxyribonucleic acid and genomic deoxyribonucleic acid of the human fibrinogen gene.
 A;Accession: A90469
 A;Molecule type: DNA
 A;Residues: 1-38 <CHI>
 A;Accession: B90459
 A;Molecule type: mRNA
 A;Residues: 9-191; 'A', 193-491 <CH2>
 A;Cross-references: GB-J00129; NID:9182429; PID:AA52429_1; PID:9182430
 A;Cross-references: EMBL:X05018; NID:931400; PID:CA28574_1; PID:931401
 R;Henschel, A.; Lottspeich, F.; Southan, C.; Topfer-Petersen, E.
 In: Proteins of the Biological Fluids, Proc. 28th Colloq., Peeters, H., ed., pp. 51-56, Pergamon Press, Oxford, 1987
 Nucleic Acids Res. 15, 1615-1625, 1987
 A;Title: Characterization of the 5'-flanking region for the human fibrinogen beta gene.
 A;Reference number: I37389; MUID:87146483; PMID:3029722
 A;Accession: I37389
 A;Status: translated from GB/EMBL/DDJB
 A;Molecule type: DNA
 A;Residues: 1-38 <HB>
 A;Cross-references: EMBL:X05018; NID:931400; PID:CA28574_1; PID:931401
 R;Henschel, A.; Lottspeich, F.; Southan, C.; Topfer-Petersen, E.
 In: Proteins of the Biological Fluids, Proc. 28th Colloq., Peeters, H., ed., pp. 51-56, Pergamon Press, Oxford, 1987
 Nucleic Acids Res. 15, 1615-1625, 1987
 A;Title: Human fibrinogen: sequence, sulfur bridges, glycosylation and some structural variations.
 A;Reference number: A94433
 A;Contents: carbohydrate binding
 A;Accession: A94433
 A;Molecule type: protein
 A;Residues: 31-137; 'QS', 140-144; 'QF', 147-491 <HEN>
 R;Watt, K.W.K.; Takagi, T.; Doig, R.F.
 Biochemistry 18, 68-76, 1979
 A;Title: Amino acid sequence of the beta chain of human fibrinogen.
 A;Reference number: A90437; MUID:79124640; PMID:420779
 A;Accession: A90437
 A;Molecule type: protein
 A;Residues: 31-144; 'QF', 147-231; 'D', 233-330; 'E', 332-491 <WAT>
 R;Blomback, B.; Hessel, B.; Hogg, D.
 Thromb. Res. 8, 639-658, 1976
 A;Title: Disulfide bridges in NH₂-2-terminal part of human fibrinogen.
 A;Reference number: A94309; MUID:76225080; PMID:936108
 A;Contents: disulfide bonds
 A;Accession: A94309
 A;Molecule type: protein
 A;Residues: 1-38 <KUN>
 A;Note: identification of tryptic peptides from high-density lipoproteins
 R;Henschel, A.; Lottspeich, F.; Kehl, M.; Southan, C.
 R;Kunidis, S.T.; Carilli, C.T.; Lau, K.; Procter, A.A.; Nayal-Vigne, J.; Kane, J.P.
 Biochemistry 33, 1988-1993, 1994
 A;Title: Identification of proteins associated with apolipoprotein A-I-containing lipoproteins.
 A;Reference number: A5223; MUID:94162201; PMID:8117655
 A;Accession: G54223
 A;Molecule type: Protein
 A;Residues: 164-174 <KUN>
 A;Reference number: A90437; MUID:83254370; PMID:65755689
 A;Contents: annotation; review; disulfide bonds
 R;Gardlund, B.; Hessel, B.; Marquerie, G.; Murano, G.; Blomback, B.
 Eur. J. Biochem. 77, 595-610, 1977
 A;Title: Primary structure of human fibrinogen. Characterization of disulfide-containing
 A;Reference number: A91249; MUID:77245999; PMID:891553
 A;Contents: annotation; disulfide bonds
 R;Doelittle, R.F.; Takagi, T.; Watt, K.; Bouma III, H.; Cottrell, B.A.; Cassman, K.G.; Goto, T.; Magnusson, S.; Ottesen, M.; Folt, C.; Title: The structures of fibrinogen and fibrin.
 A;Reference number: A94437

A:Contents: annotation; disulfide bonds
R:Doolittle, R.F.
A:Title: Ann. Rev. Biochem. 53, 195-229, 1984
A:Reference number: A90041; MUID:8430571; PMID:6383194
A:Contents: annotation; review; 3D structure; Polymerization, ligands
R:Contents: annotation; review; 3D structure; Polymerization, ligands
R:Chung, D.W.; Nixon, M.W.; Que, B.G.; Davie, E.W.
Ann. N. Y. Acad. Sci. 408, 449-456, 1983
A:Title: Cloning of fibrinogen genes and their cDNA.
A:Reference number: A90038; MUID:83254384; PMID:6575700
A:Contents: annotation
R:Kirchbaum, N.E.; Budzynski, A.Z.
J. Biol. Chem. 265, 13669-13676, 1990
A:Title: A unique proteolytic fragment of human fibrinogen containing the alpha C
A:Reference number: A90377; MUID:90337977; PMID:2143188
A:Contents: annotation; hemantin cleavage site
A:Note: hemantin, a protease from Haementeria ghilianii, the giant South American
C:Comment: The conversion of fibrinogen to fibrin is triggered by thrombin, which
C:Comment: The soft clot is converted into the hard clot by factor XIIIa (fibrin-s
C:Comment: and between alpha chains (weaker) of different monomers.
C:Genetics:
A:Gene: GDB:FBG
A:Cross-references: GDB:119130; OMIM:134830
A:Map Position: 4q28-q28
A:Introns: 38/3; 10/3; 16/1; 240/1; 278/1; 320/1; 415/2
C:Complex: The fibrinogen molecule is a hexamer containing two sets of alpha (see
ins are contained in the core. Two three-chain coiled coils emerge from this core
from the distal domain nodes.

C:Function:

A:Description: fibrinogen cleaved by thrombin yields monomers that are polymerized
A:Pathway: blood coagulation

C:Superfamily: fibrinogen beta chain; fibrinogen beta/gamma homology; fibrinogen domain
C:Keywords: blood coagulation; coiled coil; glycoprotein; liver; plasma; pyroglutamate

F:1-30/Domain: (or 4-30 or 15-30) signal sequence #status predicted <SIG>
F:31-431/Product: fibrinopeptide B #status experimental <APB>
F:45-491/Product: fibrin beta chain #status experimental <FBG>
F:45-477/Region: polymerization site
F:99-228/Domain: fibrinogen disulfide ring homology <FDR>
F:31-487/Domain: fibrinogen beta/gamma homology acid (Gln) (in mature form)
F:44-457/Cleavage site: Arg-Gly (thrombin); #status experimental
F:95-105/Disulfide bonds: interchain (to alpha-55); #status experimental
F:105-106/Disulfide bonds: interchain (to alpha-58); #status experimental
F:110/Disulfide bonds: interchain (to gamma-45); #status experimental
F:223/Disulfide bonds: interchain (to alpha-184); #status experimental
F:227/Disulfide bonds: interchain (to gamma-161); #status experimental
F:231-316,41-270,424-437/Disulfide bonds: #status experimental
F:394/Binding site: carbohydrate (Asn)(covalent); #status experimental

Query Match 19.6%; Score 526.5; DB 1; Length 491;
Best Local Similarity 30.0%; Pred. No. 9.2e-27;
Matches 138; Conservative 64; Mismatches 114; Index 139; Gaps 16;

OY 92 LNNELIKQKROQIETLQLQVKGDDGIIVSEVKURKESSRNMSRVQT-----YMQLHEI 145
Db 112 LQEALIQQERPIRN-----SVD-----EIDNNTEAVCSQSSSSRFQYMLKLKD 154
OY 146 IRKRDNALE-----LSQLENRTI-----NQTAADMQLQASRYKQLEHKYQHLAT 188
Db 155 WOKRQKQVKDDENVWVEYSSLEKQIYIDBTVNNSPNTVRLVRSLLENLRSKQKL-- 212
OY 189 LAHHOBIIAILEEKRQVSARPPQOPPPAAPPRVYQOPTYNRINTNOITNEIGSDQNL 248
Db 213 -----ESVSAQH-EYC-RPCT-----VSCN----- 232
OY 249 KVLPPLPPUTPMPLTSPLPSSTDPKSPQRWDQIQALEDGHDTSSIVLVKPNENTRIMQWCD 308
Db 233 -----IPVV-----SG---KECEBIIRKGETSEMYLQDPSSVKPYRVCD 271
OY 309 ORHDPGSWTVIQRRLDGSVNFRRWETYKQOFGNI-----DGYWLGLENIYW 356

A;Description: fibrinogen cleaved by thrombin yields monomers that are polymerized into
 C;Pathway: blood coagulation
 C;Superfamily: human extended splice form fibrinogen alpha chain; fibrinogen beta/gamma
 C;Keywords: alternative splicing; blood coagulation; glycoprotein; liver; phosphoprotein
 F;1-19/Domain: signal sequence #status predicted <STG>
 F;1-19/Domain: fibrinopeptide A #status experimental <MAT>
 F;2-35/Product: fibrinopeptide A #status experimental <APT>
 F;36-863/Product: fibrin alpha chain, extended splice form #status predicted <FGA>
 F;185/Region: fibrinogen disulfide ring homology <FDR>
 F;181-533/Region: cell attachment (R-G-D) motif
 F;629-863/Domain: fibrinogen beta/gamma homology <FBG>
 F;15-36/Cleavage site: phosphate (Ser) (covalent) #status experimental
 F;47/Disulfide bonds: interchain (to alpha-47) #status predicted
 F;55/Disulfide bonds: interchain (to beta-95) #status experimental
 F;64/Disulfide bonds: interchain (to gamma-49) #status experimental
 F;68/Disulfide bonds: interchain (to alpha-106) #status experimental
 F;80/Disulfide bonds: interchain (to gamma-165) #status experimental
 F;84/Disulfide bonds: interchain (to beta-223) #status experimental
 F;288,419/Binding site: carbohydrate (Asn) (covalent) #status absent
 F;322/Cross-link: isopeptide (Lys) (interchain to Gin-41 of alpha-2-plasmin inhibitor) #status exp
 F;451-491/Cross-link: isopeptide (Gln) (interchain to Lys N6-amino of alpha) #status exp
 F;527,558,581,599/Cross-link: isopeptide (Lys) (interchain to Gln of alpha) #status predicted
 F;866,831/Binding site: carbohydrate (Asn) (covalent) #status predicted
 Query Match 19.1%; Score 512.5; DB 2; Length 479;
 Best Local Similarity 29.2%; Pred. No. 7.2e-26;
 Matches 136; Conservative 64; Mismatches 138; Indels 128; Gaps 15;
 Qy 67 GAI[CNSKE-PEV]IENR-----VH[Q]BLE[LINNE]LI[KQR]Q[ETI]LQLV[KVD]341V 117
 Db 94 GVL[CITG]CE[REEL]K[Q]P[V]K[IS]M[UK]Q[NLT]F[IN]P[DR]M[ASD]N[IK]O----- 144
 Qy 118 SEVKURK[RSR]MSRVTOLYQ[MLHEIR]KRDNAEL[SOLEN]T[IL]Q[ADML]Q[AS]K[Y]K 177
 Db 145 -NVQ[LR]--RRLNSSS---THVNQK-----EIE[N]-----[Y]K 172
 Qy 178 DLEHKXOH-LATLAHNQ[SI]IAOLEE[H]C[OR]V[S]AR[P]V[P]P[R]A[P]R[Y]Q[P]TY[N]R[Q] 236
 Db 173 EVKURIEST[V]ASLRSMKSVLEH[R]AKQ[M]RMEBAAIKO[B]LC[S]APCTV----- 220
 Qy 237 ISTNB[Q]S[D]NL[K]TLP[PL]PTMP[TL]S[PS]S[TK]P[SW]RDC[Q]AL[GD]P[TS]IYV[K]P 296
 Db 221 -----NCRV-----PV[G]M-----HEDIVYANGR[G]SEAYV[T]Q 250
 Qy 297 ENTRNL[MQ]WCD[Q]RHD[P]GWT[VI]Q[RL]DGSVN[F]RNW[PT]Y[K]Q[G]-----NIDG 345
 Db 251 DLFSB[PY]KV[FC]DM[SH]GG[WT]V[ON]R[VG]SSNF[ARD]NTY[K]AEG[FT]A[FG]NKSIC[IP]G 310
 Qy 346 BYW[GL]EN[YT]W[L]TQ[GY]N[KL]V[LT]M[ED]W[DS]G[SY]V[A]Q[YS]F[R]P[E]N[E]Y[KL]R[G]Y[H]NAG 405
 Db 311 EYW[GI]KTW[Q]L[Q]KHTQQ[FL]FMSD[MG]SSV[TA]Q[YS]F[R]P[E]N[E]Y[KL]R[G]Y[H]NAG 370
 Qy 406 D-----SFTW[H]NG[Q]OPT[TD]RHDVY----TGNC[AY]Q[G]G[MY]N[A]HS 446
 Db 371 N[ALLEGATO]L[G]D[NR]MT[H]NG[Q]OF[ST]FDRD[DN]W[N]QD[PT]K[RC]S[RD]AGG[W]IN[RC]HA 430
 Qy 447 N[LG]WYR[G]H[HY]RSY----OPGV[VA]E[FR]G[G]S[YL]K[V]VM[IR]P 487
 Db 431 NP[N]GRY[W]G[GI]Y[KE]Q[AD]G[T]D[G]V[V]W[N]W[K]G[S]W[SH]R[Q]M[A]K[L]P 476
 Qy 503 YGG[G]WYNN[CA]H[LN]G[WT]R[G]H[YS]R----YDG[V]W[A]E[FR]G[G]S[YL]K[V]VM[IR]P 487
 Db 862

RESULT 5

A25052 fibrinogen beta chain - sea lamprey (fragments)
 NC:Contains: fibrinopeptide B
 CS:Species: Petromyzon marinus (sea lamprey)
 CD:Date: 25-Oct-1997 #sequence_revision 19-Feb-1999 #text_change 13-Aug-1999
 CA:Accession: A25052; A03124; B33124
 RB:Bohonos, V.L.; Doolittle, R.F.; Pontes, M.; Strong, D.D.
 Biochemistry 25, 6512-6515, 1986
 ATitle: Complementary DNA sequence of lamprey fibrinogen beta chain.
 A;Reference number: A25052; MUID:87076532; PMID:7790537
 A;Accession: A25052
 A;Molecule type: mRNA
 A;Residues: 39-479 <BOH>
 A;Cross-references: GB:MI4773; NID:9213191; PIDN:AAA49261.1; PID:g213192
 R;Cottrell, B.A.; Doolittle, R.F.; Bohonos, V.L.; Pontes, M.; Strong, D.D.
 Biochim. Biophys. Acta 453, 426-438, 1976
 A;Title: Amino acid sequences of lamprey fibrinopeptides A and B and characterization of
 A;Reference number: A03120; MUID:77065679; PMID:399898
 A;Molecule type: protein
 A;Residues: 1-35 <COT1>
 A;Molecule type: protein
 A;Residues: 37-2 <COT2>
 C;Superfamily: fibrinogen beta chain; fibrinogen beta/gamma homology; fibrinogen disulf

Query Match 18.7%; Score 503; DB 2; Length 463;
 Best Local Similarity 29.6%; Pred. No. 2.9e-25;
 Matches 128; Conservative 63; Mismatches 146; Indels 96; Gaps 11;
 Qy 92 INNELL[K]Q[K]R[QT]L[Q]L[V]K[U]GG[IV]S[EV]K[UR]K[RSR]MSRVT[Q]Y[MLHEIR]KRDN 151
 Db 86 LQ[PT]L[K]Q[E]K[T]P[V]R[D]K-----D[RV]A[F]S[D]T[ST]M[Q]Y[N]M[D]K[J]V[KT]Q[K]R[D]N 139
 Qy 152 AEL[LS]Q[EN]R[IL]N[Q]T[AD]M[Q]L[A]S[K]Y[K]D[LE]K[Q]H[O]I[L]A[T]H[N]Q[SE]T[Q]A[L]Q[E]B[H]C[OR]V[S]R 211

C;Keywords: blood coagulation; glycoprotein; sulfoprotein
 F;1-36/Product: fibrinopeptide B #status experimental <FBP>
 F;37-47/Product: fibrin beta chain #status experimental <MAT>
 F;90-219/Domain: fibrinogen disulfide ring homology <FDR>
 F;229-477/Domain: fibrinogen beta/gamma homology <FBG>
 F;13/Binding site: sulfate (Asn) (covalent) #status experimental
 F;27/Binding site: carbohydrate (Asn) (covalent) #status experimental
 Query Match 19.1%; Score 512.5; DB 2; Length 479;
 Best Local Similarity 29.2%; Pred. No. 7.2e-26;
 Matches 136; Conservative 64; Mismatches 138; Indels 128; Gaps 15;
 Qy 67 GAI[CNSKE-PEV]IENR-----VH[Q]BLE[LINNE]LI[KQR]Q[ETI]LQLV[KVD]341V 117
 Db 94 GVL[CITG]CE[REEL]K[Q]P[V]K[IS]M[UK]Q[NLT]F[IN]P[DR]M[ASD]N[IK]O----- 144
 Qy 118 SEVKURK[RSR]MSRVTOLYQ[MLHEIR]KRDNAEL[SOLEN]T[IL]Q[ADML]Q[AS]K[Y]K 177
 Db 145 -NVQ[LR]--RRLNSSS---THVNQK-----EIE[N]-----[Y]K 172
 Qy 178 DLEHKXOH-LATLAHNQ[SI]IAOLEE[H]C[OR]V[S]AR[P]V[P]P[R]A[P]R[Y]Q[P]TY[N]R[Q] 236
 Db 173 EVKURIEST[V]ASLRSMKSVLEH[R]AKQ[M]RMEBAAIKO[B]LC[S]APCTV----- 220
 Qy 237 ISTNB[Q]S[D]NL[K]TLP[PL]PTMP[TL]S[PS]S[TK]P[SW]RDC[Q]AL[GD]P[TS]IYV[K]P 296
 Db 221 -----NCRV-----PV[G]M-----HEDIVYANGR[G]SEAYV[T]Q 250
 Qy 297 ENTRNL[MQ]WCD[Q]RHD[P]GWT[VI]Q[RL]DGSVN[F]RNW[PT]Y[K]Q[G]-----NIDG 345
 Db 251 DLFSB[PY]KV[FC]DM[SH]GG[WT]V[ON]R[VG]SSNF[ARD]NTY[K]AEG[FT]A[FG]NKSIC[IP]G 310
 Qy 346 BYW[GL]EN[YT]W[L]TQ[GY]N[KL]V[LT]M[ED]W[DS]G[SY]V[A]Q[YS]F[R]P[E]N[E]Y[KL]R[G]Y[H]NAG 405
 Db 311 EYW[GI]KTW[Q]L[Q]KHTQQ[FL]FMSD[MG]SSV[TA]Q[YS]F[R]P[E]N[E]Y[KL]R[G]Y[H]NAG 370
 Qy 406 D-----SFTW[H]NG[Q]OPT[TD]RHDVY----TGNC[AY]Q[G]G[MY]N[A]HS 446
 Db 371 N[ALLEGATO]L[G]D[NR]MT[H]NG[Q]OF[ST]FDRD[DN]W[N]QD[PT]K[RC]S[RD]AGG[W]IN[RC]HA 430
 Qy 447 N[LG]WYR[G]H[HY]RSY----OPGV[VA]E[FR]G[G]S[YL]K[V]VM[IR]P 487
 Db 431 NP[N]GRY[W]G[GI]Y[KE]Q[AD]G[T]D[G]V[V]W[N]W[K]G[S]W[SH]R[Q]M[A]K[L]P 476
 Qy 503 YGG[G]WYNN[CA]H[LN]G[WT]R[G]H[YS]R----YDG[V]W[A]E[FR]G[G]S[YL]K[V]VM[IR]P 487
 Db 862

RESULT 6

A38463 fibrinogen beta chain - chicken (fragment)
 C;Species: Gallus gallus (chicken)
 C;Date: 31-Jul-1991 #sequence_revision 31-Jul-1991 #text_change 13-Aug-1999
 C;Accession: A38463
 R;Heissbach, L.; Oddoux, C.; Procyk, R.; Grieninger, G.
 Biochemistry 30, 3290-3294, 1991
 A;Title: The beta chain of chicken fibrinogen contains an atypical thrombin cleavage site
 A;Reference number: A38463; MUID:91182745; PMID:2009266
 A;Accession: A38463
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-463 <WET>
 A;Cross-references: GB:MS514; NID:9211779; PIDN:AAA48770.1; PID:g211780
 C;Superfamily: fibrinogen beta chain; fibrinogen disulfide ring homology <FDR>
 F;73-202/Domain: fibrinogen disulfide ring homology <FDR>
 F;212-460/Domain: fibrinogen beta/gamma homology <FBG>
 Query Match 18.7%; Score 503; DB 2; Length 463;
 Best Local Similarity 29.6%; Pred. No. 2.9e-25;
 Matches 128; Conservative 63; Mismatches 146; Indels 96; Gaps 11;
 Qy 92 INNELL[K]Q[K]R[QT]L[Q]L[V]K[U]GG[IV]S[EV]K[UR]K[RSR]MSRVT[Q]Y[MLHEIR]KRDN 151
 Db 86 LQ[PT]L[K]Q[E]K[T]P[V]R[D]K-----D[RV]A[F]S[D]T[ST]M[Q]Y[N]M[D]K[J]V[KT]Q[K]R[D]N 139
 Qy 152 AEL[LS]Q[EN]R[IL]N[Q]T[AD]M[Q]L[A]S[K]Y[K]D[LE]K[Q]H[O]I[L]A[T]H[N]Q[SE]T[Q]A[L]Q[E]B[H]C[OR]V[S]R 211

400 TRYSMKKTTMVKIP 414

F;35//Disulfide bonds: interchain (to gamma-34) #status predicted
 F;45//Disulfide bonds: interchain (to beta-110) #status predicted
 F;9//Disulfide bonds: interchain (to alpha-64) #status predicted
 F;161//Binding site: carbohydrate (Asn) (covalent) #status predicted
 F;165//Disulfide bonds: interchain (to beta-227) #status predicted
 F;179-208,352-365//Disulfide bonds: interchain (to alpha-180) #status predicted
 F;44//Cross-link: isopeptide (Gln) (interchain to Lys-432 N6-amino) #status predicted
 F;132//Cross-link: isopeptide (Lys) (interchain to Lys-424) #status predicted

Query Match 18.7%; Score 501; DB 1; Length 453;
 Best Local Similarity 31.2%; Pred. No. 3.8e-25; Mismatches 100; indels 106; Gaps 9;
 Matches 111; Conservative 54; Mismatches 140; Indels 110; Gaps 11;

QY 9 LSIVSLVQVTAATPSDKDILSARRVIRSIILEDRSQKL-----ESDIASQ-TEYC- 60

Db 206 RVPSPARPVQPQPPAAPPVVQOPTYRINQISTNEIQSDONLKVLPPLPTMPLJSLP 265

QY 61 -----HTPCVNCNIPVVSKE----- 77

Db 153 LEISQLENLINQNTADMQ-----IASKYKDEHKYOHIALAHNOSETIAOLEH CQ 205

QY 266 SSTDKPSPWRCQLQALEDGHPTSSYLVKPENTNRIMQWDQRHDGGNTVIQRLDG 325

Db 78 -----CEETIRKGGENSEMYLQPDTSKPYRVICDMKVENGGWIVIONRQDG 125

Db 156 QLEAQOQE-----PCK 166

QY 139 NQLMHIIKRDNAELSLSQLENRINQNTADMQLASKYKOLEHKYQHLATLAHQSEITLA 198

Db 113 RNLREEMK-----YEAHSITHDSRIVYLOBIYNSNNQKVNL-----KEKYA 155

QY 199 QLEEHCORVPSARPVQOPPPAPPRVYQOPTYRINQISTNEIQSDONLKVLPPLPTM 258

Db 259 PTLTSLPSSTPKPSGPWRDCI-QALEGDHTTSISLYLKPENTNRIMQWDQRHHGGWTV 318

QY 167 DRY-QHDITSGK-----DQDIAANKGAKQSGGLYF-KPLKHNQOFLVYCBIDGSGNGWTV 219

Db 319 IQRRLDGSVNFRNWETYKQSGNID---GBYWIGLENIYWLTHQG-NHKLVTMEDW 372

Db 220 FQKLRLDGSVDFKKQWIOYKEFSGHLSPTGTREFMLNEKHLISTOSATIYALRTEEDW 279

QY 373 SGRKVFAEYASFRLEPESYYKURLGRY-HQAGDS-----FTWINGKQFT 417

Db 280 NGRTSTADYAMFKVGPBDKVRLTAYFAGGDGDAFDGFDDPSDKFPTFSHGMQFS 339

QY 418 TUDRHQHVTGCAHYQKGGMWYNAHCNSHNGVWFRGHR-----SRQDGVVAEFR 472

Db 340 TWNDNDKFEQNGCAEQDQSGWMMNKCHAGHNGVYQGTYSKASTPNGYDNGIWTWK 399

QY 473 GGSYSLKKVMMTRP 487

Db 400 TRWYSMKITTMKIP 414

RESULT 9

A05299 fibrinogen beta chain precursor - rat (fragments)

N;Contains: fibrinopeptide B

C;Species: Rattus norvegicus (Norway rat)

C;Date: 05-Jun-1987 #sequence_revision 10-Mar-1994 #text_change 13-Aug-1999

C;Accession: A05299; PMID: 0

R;Fowlkes, D.M.; Mullis, N.T.; Comeau, C.M.; Crabtree, G.R.

Proc. Natl. Acad. Sci. U.S.A. 81, 2313-2316, 1984

A;Title: Potential basis for regulation of the coordinately expressed fibrinogen genes:

A;Reference number: A93989; MUID: 84194000; PMID: 622608

A;Accession: A05299

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-282 <XUX>

A;Cross-references: GB:M31326; NID:9161164; PID:9161165

F;67-280//Domain: fibrinogen beta/gamma homology

Query Match 18.4%; Score 495; DB 2; Length 282;
 Best Local Similarity 34.6%; Pred. No. 4.8e-25; Mismatches 96; Indels 56; Gaps 6;
 Matches 104; Conservative 45; Mismatches 96; Indels 56; Gaps 6;

QY 192 NQSEITAQLEEHQCQRPVSPARPVQOPPPAPPRVYQOPTYRINQISTNEIQSDONLKVLT 251

Db 28 NESEITFERRERSLADPGRQKROSGLSCPKRISHSPVEP----- 67

Db 252 PPPLPTMPLTSLPSSTDKPSGPWRDCI-QALEGDHTTSISLYLKPENTNRIMQWD 308

Db 68 -----RDCYDILQCSQQSPSGQYYIQPDQGN-LIKYCD 102

QY 309 QRHDPGGWTVQRRLDGSVAFRNWETYKQKGFGNIDGEYTWIGLLENIYWLTHQGMYKLV 368

Db 103 METDEGGWTVQRRIDGTTNFYRSVSYQPGFQNTNTFGLGNINHWHYLTSGDYELRYE 162

QY 369 MBDWSGKVKFAEYASFRLEPESYYKURLGRYHGAGDSFTWHNGKQFTLDRHDVYIG 428

C;Keywords: blood coagulation; glycoprotein; liver; plasma

A;Cross-references: GB:M27220; NID:9529585; PID:AAA41160.1; PID:9529586

C;Superramilies: fibrinogen beta chain; fibrinogen beta/gamma homology; fibrinogen disulf

C;Keywords: blood coagulation; glycoprotein; liver; plasma

F;33-65//Domain: fibrinogen disulf ring homology (fragment) <FDR>

F;75-324//Domain: fibrinogen beta/gamma homology <FBG>

RESULT 13
B41722

Ficolin-beta - pig

C;Species: Sus scrofa domestica (domestic pig)

C;Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999

C;Accession: B41722 R;Ichijo, H.; Heilmann, U.; Wernstedt, C.; Gomez, L.J.; Claesson-Welsh, L.; Heilman, C.H.; J. Biol. Chem., 268, 14505-14513, 1993

A;Title: Molecular cloning and characterization of ficolin, a multimeric protein with ficolin-like domains.

A;Reference number: A41722; MUID:93300852; PMID:7686157

A;Status: preliminary

A;Molecule type: mRNA, protein

A;Residues: 1-326 <C>

A;Cross-references: GB:L12345; NID:9294219; PIDN:AAC69641.1; PID:91228925

A;Experimental source: uterus

A;Note: sequence extracted from NCBI backbone (NCBIN:134468, NCBIPI:134470)

C;Superfamily: fibrinogen beta/gamma homology <FBG>

F;115-326/Domain: fibrinogen beta/gamma homology <FBG>

Query Match 18.0%; Score 484.5; DB 2; Length 326;

Matches 101; Best Local Similarity 45.3%; Pred. No. 3.3e-24; Mismatches 69; Indels 11; Gaps 6;

QY 272 SGPPWRCIQLAEDGHHTS--SIYLVKEENTNLIMQVWQDQRHDPGGWTVIQRLLGSVN 326

Db 113 TGP-RNCKDLDLDRGYFLSGWHNIYL-PD-CRPLTIVCDMDTDGGGWTVQRRMGSVD 167

QY 329 PFRNWEETKQGEENTIDERYWIGLENTYWTUQNQNYKLUVTWMDWSERKRVFAYASFRILL 388

Db 168 FYDVRWAATRQGEFSQLGFWSFLWGNNDHILATAGQSELRLVDFEGHHQPAKYSKRFAD 227

QY 389 ESEVYKURGLGRY-HGNAGDSFTWINGKQFTTLDRHDVYTGNCAYQGGWYNACRHSN 447

Db 228 EAEXKVKLYIGAFVGGSAGSNLTCNNNNPFPSTKHDQDNDDVSNSCAEKFQGAWWWYDCHASS 287

QY 448 LNGWYRGRHYRSVQDGVVWAEFGGSISLKKVMMIRP 487

Db 288 INGLYLMSPH--ESYANGINNSAKGKYKSYKVSEMVKRP 325

RESULT 14
S61517

ficolin-1 precursor - human

N;Alternate names: 35K Human-cross-reactive plasma protein; hucoulin, 35K

C;Species: Homo sapiens (human)

C;Date: 27-Apr-1996 #sequence_revision 13-Mar-1997 #text_change 18-Feb-2000

C;Accession: S61517; JG4942

R;Lu, J.; Tay, P.N.; Kon, O.L.; Reid, K.B.M.

Biochem. J. 313, 473-478, 1996

A;Reference number: S61517; MUID:9615259; PMID:8737300

A;Accession: S61517

A;Status: preliminary; not compared with conceptual translation

A;Molecule type: mRNA

A;Residues: 1-326 <LJU>

A;Cross-references: GB:S80930; NID:91911539; PIDN:AB50706.1; PID:91911530

A;Experimental source: uterus

A;Title: Characterization of ficolins as novel elastin-binding proteins and molecular cl

A;Reference number: JG4942; MUID:97103465; PMID:8947836

A;Accession: JG4942

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 8-132 'T' 134-286, 'N' 288-326 <HAR>

A;Cross-references: UDB:D83920; NID:91510126; PIDN:BA12120.1; PID:d1012734; PID:915101

A;Experimental source: uterus

C;Comment: This is an elastin-binding plasma protein.

C;Superfamily: fibrinogen beta/gamma homology

C;Keywords: glycoprotein; plasma

F;1-22/Domain: collagen-like

F;52-108/Region: collagen-like

F;115-326/Domain: fibrinogen beta/gamma homology <FBG>
F;305/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 18.0%; Score 483.5; DB 2; Length 326;

Best Local Similarity 45.3%; Pred. No. 3.3e-24; Mismatches 69; Indels 11; Gaps 6;

Matches 101; Conservative 39; Mismatches 69; Indels 11; Gaps 6;

QY 272 SGPPWRCIQLAEDGHHTS--SIYLVKEENTNLIMQVWQDQRHDPGGWTVIQRLLGSVN 326

Db 113 TGP-RNCKDLDLDRGYFLSGWHNIYL-PD-CRPLTIVCDMDTDGGGWTVQRRMGSVD 167

QY 329 PFRNWEETKQGEENTIDERYWIGLENTYWTUQNQNYKLUVTWMDWSERKRVFAYASFRILL 388

Db 228 EAEXKVKLYIGAFVGGSAGSNLTCNNNPFPSTKHDQDNDDVSNSCAEKFQGAWWWYDCHASS 287

QY 448 LNGWYRGRHYRSVQDGVVWAEFGGSISLKKVMMIRP 487

Db 288 INGLYLMSPH--ESYANGINNSAKGKYKSYKVSEMVKRP 325

RESULT 15
A27447

Cytotoxic T-lymphocyte-specific protein precursor (clone pT49) - mouse

C;Species: Mus musculus (house mouse)

C;Date: 15-Dec-1988 #sequence_revision 15-Dec-1988 #text_change 03-Dec-1999

C;Accession: A27447

R;Koyama, T.; Hall, L.R.; Haser, W.G.; Tonegawa, S.; Saito, H.

Proc. Natl. Acad. Sci. U.S.A. 84, 1609-1613, 1987

A;Title: Structure of a cytotoxic T-lymphocyte-specific gene shows a strong homology to

A;Reference number: A27447; MUID:87175527; PMID:3550794

A;Accession: A27447

A;Molecule type: mRNA

A;Residues: 1-432 <C>

A;Cross-references: GB:M16238; NID:9193304; PIDN:AA337624.1; PID:9387156

C;Superfamily: fibrinogen beta/gamma chain; fibrinogen beta/gamma homology

F;203-428/Domain: fibrinogen beta/gamma homology <FBG>

Query Match 18.0%; Score 483.5; DB 2; Length 432;

Best Local Similarity 26.3%; Pred. No. 4.8e-24; Mismatches 164; Indels 133; Gaps 17;

Matches 136; Conservative 84; Mismatches 164; Indels 133; Gaps 17;

QY 9 W-WL--GLIAGMAGAVAGQEDGFGEGTEBGSPPREIFYNRYKRAESQ-DKCTYVPIVQR 64

Db 6 WMLWSSAVALAACRATE-ERNLITDLSAQAAACPA-RLEGSGRCEGSQCPFLQILT 63

QY 65 VTAGTCVNSKEPEVTLIENRHKQBEELNLKQKRQIE-----T 105

Db 64 IQLPROLGSME-EVILKEVRLIKEAVDSLRSKSCQPKLQADHDPPGGNGNGAETAEDSR 122

QY 106 IQLQVYDGGTIVSEYKLRSERNNNRVOLYQMLLHEITRKDNAELSQENRILQ 165

Db 123 VQBLSSQVNKLSELKAKOQIOQIQLQRISTHL-----VNNNLENYDK 169

Db 166 TADMQLGASKYKDLHKYQHQLATLHNQSIIADEEEHQCORVAPRVPQPPPAAPRV 225

QY 170 VA-----NLTWVNSLDGKSKSCKCPSEOHMSQPV---- 198

Db 226 QPPTYKRNINQISTNEIQSPONKLPPPLPTMLTSPLPSSTBKPSGPWRDQLAEDG 285

QY 199 -----OHL-----T-YKDCSHIVLG 213

Db 286 HDTSSTYLVKPENTNLIMQWCDQRHDPGGWTVIQRLLGSVN 345

Db 214 RRSSGAVRTVEDHRSNSFEVCDMTWGGGTVLQARLQDSTNPREWDQYKAGFGLNLR 273

QY 346 BWLGLGENIYLTNQNYKLVITMDWSGRFAYASFRPESEYYKURGLGXHGAG 405

Db 274 EFWLGNDKIRHILTKSKEMILRIDEDFNGLTLYQFVWANEFKYLHIGNYNTG 333

Qy 406 DSFTW-----EKGKQTTLRHDHY---TGMCAHTYQKGGMWYNAHNSNNGWYRGCHYR 459
 334 DALFRSRHYNHDLRFPPTPDRNDRVPSCGNGLYVSSGWNEDSCLISANLNQKY--HQK 390
 Qy 460 SR-YQGVYWAEPFG-----GSY--SLKKVMMIRP 487
 391 YKGVRNQIFWGTWPGJNCAOPGGYKSFSEKQAKMIRP 427

Search completed: July 30, 2004, 12:38:01
Job time : 19 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Perfect score: 11 US-10-018-386-2

Sequence: 1 MRPLCVTCWGLLAAAGAV. GSYSLKKVMMIRPNPNTFH 493

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt 42.4

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	2682	99.9	493	1 ANL2_HUMAN
2	2550	94.9	493	1 ANL2_MOUSE
3	577	21.5	497	1 AGP1_RAT
4	577.5	21.4	498	1 AGP1_MOUSE
5	574	21.4	495	1 AGP2_HUMAN
6	572.5	21.3	498	1 AGP1_HUMAN
7	558	20.8	509	1 AGP4_MOUSE
8	541	20.1	503	1 AGP4_HUMAN
9	537	20.0	312	1 FGLL_HUMAN
10	536.5	20.0	496	1 AGP2_BIG
11	536.5	19.9	481	1 AGP1_BOVIN
12	535.5	19.9	495	1 AGP2_MOUSE
13	527.5	19.6	468	1 FIBB_BOVIN
14	526.5	19.6	491	1 FIBB_HUMAN
15	524	19.5	741	1 FIBA_CHICK
16	522.5	19.5	479	1 FIBB RAT
17	520.5	19.4	866	1 FIBB_HUMAN
18	512.5	19.1	477	1 FIBB_PETMNA
19	506.5	18.9	299	1 FCN3_HUMAN
20	505	18.8	782	1 FIBA RAT
21	504.5	18.8	1 AGP2_BOVIN	RT "The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment."; RT Genome Res. 13:2265-2270(2003).
22	503.5	18.7	306	1 FCN2_MOUSE
23	503.5	18.7	313	1 FCN2_HUMAN
24	503	18.7	463	1 FIBB CHICK
25	501	18.7	453	1 FBG_HUMAN
26	495	18.4	282	1 FIBA_PARA
27	489.5	18.2	438	1 FIBG_XENLA
28	488.5	18.2	326	1 FCN1_HUMAN
29	486.5	18.1	255	1 MFA4_HUMAN
30	483.5	18.0	432	1 FGII2_MOUSE
31	482.5	17.9	334	1 FCN1_MOUSE
32	480.5	17.9	439	1 FGII2_HUMAN
33	479.5	17.9	319	1 FCN2_RAT

ALIGNMENTS

RESULT 1	ID	ANL2_HUMAN	STANDARD;	PRT;	493 AA.
RT	Q9UK99;				
AC	Q9UK99;				
DT	16-OCT-2001 (Rel. 40, Created)				
DT	16-OCT-2001 (Rel. 40, Last sequence update)				
DT	15-MAR-2004 (Rel. 43, Last annotation update)				
DE	Angiopoietin-related protein 2 precursor (Angiopoietin-like 2)				
DE	(UNQ170/PROJ196).				
GN	ANGPT12 OR ARP2.				
OS	Homo sapiens (Human)				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
OX	NCBI_TaxID=9606;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RC	TISSUE_Here;				
RC	MEDLINE:99403103; PubMed=10473614;				
RA	Kim I., Moon S.-O., Koh K.N., Kim H., Uhm C.-S., Kwak H.J., Kim N.-G.,				
RA	Roh G.Y.;				
RT	"Molecular cloning, expression, and characterization of angiopoietin-related protein, angiopoietin-related protein induces endothelial cell sprouting"; J. Biol. Chem. 274:26523-26528(1999).				
RT	SEQUENCE FROM N.A.				
RP	MEDLINE:22897296; Pubmed=12975309;				
RA	Clark H.F., Gurney A.L., Alaya E., Baker K., Baldwin D., Brush J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P., Eaton D., Foster J., Grimaldi C., Gu O., Hass P.E., Heldens S., Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J., Lewis L., Liao D., Mark M., Robbie E., Sanchez J., Schoenfeld J., Sebaghiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A., Vandlen R., Watanabe C., Weiland D., Woods K., Xie M.-H., Yansura D., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,				
RA	"The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment."; RT Genome Res. 13:2265-2270(2003).				
RT	SEQUENCE FROM N.A.				
RP	RT TISSUE=Ovary;				
RC	MEDLINE:22386257; PubMed=1477932;				
RA	Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins S.P., Wagner L., Sherman C.M., Schuler G.D., Altenschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Uddin T.B., Yoshiaki S., Crainici P., Prange C., Raha S.S., Loqueland N.A., Peters G.J., Abramson R.D., Mullany S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.				

PT	CARBHYD	192	192	N-LINKED (GLCNAC. . .) (POTENTIAL).	RT	endothelial cells by cytokines and hypoxia. ";
SQ	SEQUENCE	493 AA;	57118 MW;	22885ABBF0746BF2 CRC64;	RL	Circ. Res. 83:852-859 (1998).
Query Match		94.9%;	Score 2550;	DB 1;	CC	-1 - FUNCTION: Binds and activates TIE2 receptor by inducing its
Best Local Similarity		94.7%;	Pred. No. 2.1e-151;	Length 493;	CC	TYROSINE PHOSPHORYLATION. IMPLICATED IN ENDOTHELIAL DEVELOPMENTAL
Matches		467;	Conservative 10;	Mismatches 16;	CC	PROCESSES LATER AND DISTINCT FROM THAT OF VEGF APPEARS TO PLAY A
QY	1	MPLLCVTCWWGIGLAAMGAVGQEQDFEGTEEGSPREFIWVINYKRGAGSQDKCTYFIV	60	Indels 0;	CC	CRUCIAL ROLE IN MEDIATING RECIPROCAL INTERACTIONS BETWEEN THE
Db	1	MPLLCVTCWWGIGLAAMGAVGQEQDFEGTEEGSPREFIWVINYKRGAGSQDKCTYFIV	60	Gaps 0;	CC	ENDOTHELIAL AND SURROUNDING MATRIX AND MESENCHYE. MEDIATES BLOOD
QY	61	POORVGAIKVNSKEPEVLLNRVKOELTTLQQLVVRDGIVSE	120	0;	CC	VESSEL MATURATION/STABILITY. IT MAY PLAY AN IMPORTANT ROLE IN THE
Db	61	POORVGAIKVNSKEPEVLLNRVKOELTTLQQLVVRDGIVSE	120	HEART EARLY DEVELOPMENT.	CC	HEART EARLY DEVELOPMENT.
QY	121	KLKRSRNMRSVOLYMOHLIETRKRNALAEOLSNRILNOTADMLOASKYKDLB	180	1;	CC	-!- SIMILARITY: Contains 1 fibrinogen C-terminal domain.
Db	121	KLKRSRNMRSVOLYMOHLIETRKRNALAEOLSNRILNOTADMLOASKYKDLB	180	CC	-----	
QY	181	HKVQHLLAHNQSETIAQLEHHCORVSPARPVQPPPAFPVVQOPTNIRINQISTN	240	1;	CC	-----
Db	181	HKVQHLLAHNQSETIAQLEHHCORVSPARPVQPPPAFPVVQOPTNIRINQISTN	240	DR	-----	
QY	241	EIQSDONLKVPPPLPMPTJSLPSSTDKGSPARDCLQLEDGHDTSSYIJKPENTN	300	EMBL; DR008023; EAC10290.1;	DR	EMBL; DR030376; AAC78246.1; -;
Db	241	EIQSDONLKVPPPLPMPTJSLPSSTDKGSPARDCLQLEDGHDTSSYIJKPENTN	300	Interpre; IP002181; Fibrinogen_C; 1.	DR	Interpre; IP002181; Fibrinogen_C; 1.
QY	301	RIMQWCDQRIDPGGWTVIQRRLDGSVNFFRNWETKQKGNIIDGYWLGIENYWLNO	360	PFam; PRO00147; fibrinogen; 1.	DR	PFam; PRO00147; fibrinogen; 1.
Db	301	RIMQWCDQRIDPGGWTVIQRRLDGSVNFFRNWETKQKGNIIDGYWLGIENYWLNO	360	PROSITE; PS00514; FIBRIN AG C DOMAIN; 1.	DR	PROSITE; PS00514; FIBRIN AG C DOMAIN; 1.
QY	361	GRYKLKVTTMELWSGRKFAEAFAASFRPEPESYYKURLRIGVIGNACDSFTWINGKQFTTD	420	KW	Angiogenesis; Glycoprotein_C; DOMAIN; 1.	
Db	361	GRYKLKVTTMELWSGRKFAEAFAASFRPEPESYYKURLRIGVIGNACDSFTWINGKQFTTD	420	FT	Angiogenesis; Glycoprotein_C; DOMAIN; 1.	
QY	421	RHDVYTGNCAYHQGGWVNACAHNSNGWYRGHRYSRQDGVWABFRGGSYSLKK	480	FT	FT	
Db	421	RHDVYTGNCAYHQGGWVNACAHNSNGWYRGHRYSRQDGVWABFRGGSYSLKK	480	FT	FT	
QY	481	VMMIREPNPNTW	493	FT	FT	
Db	481	VMMIREPNPNTW	493	FT	FT	

RESULT 3	AGP1_RAT	STANDARD;	PRT;	497 AA.	FT	endothelial cells by cytokines and hypoxia. ";
ID	AGP1_RAT	STANDARD;	PRT;	497 AA.	RL	Circ. Res. 83:852-859 (1998).
AC	03460; QKx4Q4;				CC	-!- FUNCTION: Binds and activates TIE2 receptor by inducing its
DT	16-OCT-2001 (Rel. 40, Created)				CC	TYROSINE PHOSPHORYLATION. IMPLICATED IN ENDOTHELIAL DEVELOPMENTAL
DT	28-FEB-2003 (Rel. 41, Last sequence update)				CC	PROCESSES LATER AND DISTINCT FROM THAT OF VEGF APPEARS TO PLAY A
DT	28-FEB-2003 (Rel. 41, Last annotation update)				CC	CRUCIAL ROLE IN MEDIATING RECIPROCAL INTERACTIONS BETWEEN THE
DE	Angiopoietin-1 precursor (ANG-1).				CC	ENDOTHELIAL AND SURROUNDING MATRIX AND MESENCHYE. MEDIATES BLOOD
GN	ANGPT1.				CC	VESSEL MATURATION/STABILITY. IT MAY PLAY AN IMPORTANT ROLE IN THE
OS	Rattus norvegicus (Rat).				CC	HEART EARLY DEVELOPMENT.
OC	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				CC	-!- SIMILARITY: Contains 1 fibrinogen C-terminal domain.
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.				CC	-----
NCBI Taxid=10116;					CC	-----
[1]	SEQUENCE FROM N.A.				CC	-----
RC	Strain_Wistar; TISSUE=Placenta;				CC	-----
RX	Medline=2236496; PubMed=1245884;				CC	-----
RA	Iizasa H, Bae S.H., Asashima T., Kitano T., Matsunaga N.,				CC	-----
RA	Terasaki T., Kang Y.S., Nakashima E.,				CC	-----
RT	"Augmented expression of the tight junction protein occludin in brain endothelial cell line TR-BBB baculovirus infected sf plus insect cells.";				CC	-----
RT	Pharm. Res. 19:1757-1760(2002).				CC	-----
RL					CC	-----
QY	184	-----QHLATLAHNQSETIAQLEHHCORVSPARPVQPPPAFPVVQOPTN	231		CC	-----
Db	184	-----QHLATLAHNQSETIAQLEHHCORVSPARPVQPPPAFPVVQOPTN	231		CC	-----
QY	205	HKEELDTKBEKENLQGLVROTFTIQELEKQLSRA-----	240		CC	-----
Db	205	HKEELDTKBEKENLQGLVROTFTIQELEKQLSRA-----	240		CC	-----
QY	232	RINQISTNHLIQSDONLKVPPPLPTMPLTSPLSSTDKPSG-----PWRQCLQAED	284		CC	-----
Db	232	RINQISTNHLIQSDONLKVPPPLPTMPLTSPLSSTDKPSG-----PWRQCLQAED	284		CC	-----
QY	241	-----TNNSVLQKQSOLEL---MDTVNLVLSLTCVEVKGKKEERKFPRDCADVQA	291		CC	-----
Db	241	-----TNNSVLQKQSOLEL---MDTVNLVLSLTCVEVKGKKEERKFPRDCADVQA	291		CC	-----
QY	285	GHDTSISLYKPGENTLQMLRDPHDFGGWTVIQRRLDGSVNFFRNWETKQKGNIIDGYWLGIENYWLNO	344		CC	-----
Db	285	GHDTSISLYKPGENTLQMLRDPHDFGGWTVIQRRLDGSVNFFRNWETKQKGNIIDGYWLGIENYWLNO	344		CC	-----
QY	292	GFKSGIYTIFNNMPKPKVCFMDNGGGWTVIQRRLDGSLDFQRMWKEYKGFGPS	351		CC	-----
Db	292	GFKSGIYTIFNNMPKPKVCFMDNGGGWTVIQRRLDGSLDFQRMWKEYKGFGPS	351		CC	-----
QY	345	GEYWLGIENTYWLNOQNYKLVLTMEDWSCKVFAEYASPRLEPESEYYKLRLGRYHGN	404		CC	-----

"Regulation of angiopoietin-2 mRNA levels in bovine microvascular

RESULT 4

ID	AGP1_MOUSE	STANDARD;	PRT;	498 AA.
AC	O08538;			
DT	16-OCT-2001 (Rel. 40, Created)			
DT	16-OCT-2001 (Rel. 40, Last sequence update)			
DT	28-FEB-2003 (Rel. 41, Last annotation update)			
DE	Angiopoietin-1 precursor (ANG-1).			
GN	ANGPT1 OR APT1			
OS	Mus musculus (Mouse).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
OX	NCBI_TaxID=10090;			
RN	[1]			
RP	SEQUENCE FROM N.A. PubMed=8980223;			
RX	MEDLINE=97134663; PubMed=8980223;			
RA	Davis S., Aldrich T.H., Jones P.F., Acheson A., Compton D.L., Jain V., Ryan T.E., Bruno J., Radziejewski C., Maisonneuve P.C., Yancopoulos G.D.,			
RA	"isolation of angiopoietin-1, a ligand for the Tie2 receptor, by secretion-trap expression cloning.", Call 87:1161-1169(1996).			
CC	-!- FUNCTION: BINDS AND ACTIVATES TIE2 RECEPTOR BY INDUCING ITS PROCESSES LAYER AND DISTINCT FROM THAT OF VEGF. APPEARS TO PLAY A CRUCIAL ROLE IN MEDIATING RECIPROCAL INTERACTIONS BETWEEN THE ENDOTHELIUM AND SURROUNDING MATRIX AND MESENCYTHE. MEDiates BLOOD VESSEL MATURATION/STABILITY. IT MAY PLAY AN IMPORTANT ROLE IN THE HEART EARLY DEVELOPMENT.			
CC	-!- SUBCELLULAR LOCATION: Secreted.			
CC	-!- DEVELOPMENTAL STAGE: EARLY IN DEVELOPMENT. AT E9 TO E11, IT IS FOUND MOST PROMINENTLY IN THE HEART MYOCARDIUM SURROUNDING THE ENDOCARDIUM. LATER, IT BECOMES MORE WIDELY DISTRIBUTED, MOST OFTEN IN THE MESENCYTHE SURROUNDING DEVELOPING VESSELS, IN CLOSE ASSOCIATION WITH ENDOTHELIAL CELLS.			
CC	-!- SIMILARITY: Contains 1 fibrinogen C-terminal domain.			

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RESULT 5

ID	AGP2_HUMAN	STANDARD;	PRT;	496 AA.
AC	O15123; Q9NR7; Q9P2Y7;			
DT	16-OCT-2001 (Rel. 40, Created)			
DT	16-OCT-2001 (Rel. 40, Last sequence update)			
DT	28-FEB-2003 (Rel. 41, Last annotation update)			
DE	Angiopoietin-2 precursor (ANG-2).			
GN	ANGPT2.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A. (ISOFORM 1).			
RC	TISSUE-Lung;			
RX	MEDLINE=97349327; PubMed=9204986;			
RA	Maisonneuve P.C., Surj C., Jones P.F., Bartunkova S., Wiegand S.J., Radziejewski C., Compton D., McClain J., Aldrich T.H., Yancopoulos G.D., Papadopoulos N., Daly T.J., Davis S., Sato T.N., "Angiopoietin-2, a natural antagonist for Tie2 that disrupts in vivo angiogenesis.", Science 277:55-60(1997).			
RL	Science 277:55-60(1997).			
RN	[2]			
RP	SEQUENCE FROM N.A. (ISOFORM 1).			

PT CARBOHYD 92 92 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 122 122 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 154 154 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 243 243 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 295 295 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE: 498 AA; 57505 MN; 285B4DEC60D800 CRC64;

Query Match 21.4%; Score 575.5; DB 1; Length 498;
 Best Local Similarity 29.8%; Pred. No. 1.1e-28; Mismatches 169; Indels 103; Gaps 15;

Matches 151; Conservative 83; MisMatches 169; Del 103; Gap 15;

QY 43 RYKRAGESQDKCTYTFIVP-----QQRVGTICVNSK--EP-----EVL 79
 Db 32 RYNRICHGQ--CAYTFILPEHDGNCRESAEQNTNALORDAPHVEDFSSOKQHLEHV 89
 QY 80 LENRPHKOBELLEMLNLNLK--QKSOIETCQ-----LKVYDGGVSEVKLRKESRN 129
 Db 90 MEN--YTWOLQKLENLYVNMKSEMAQIQNAVONHTATMELGTSISOT--AEQIRK 144
 QY 130 MNSRVTQLYQMLHETIKRDNNALELSOLENTRINQADPMQLASKYKDLEKY---- 183
 Db 145 LTDVETQVQINOTSRLQIQLQNSLTYKLBQKLIQQTNEKILTHEKOSLLEHLHENEKG 204
 QY 184 -----OHALTAHNNSBIIAQLEHCQVRVISARPVQPAPPVPRVQPTYN 231
 Db 205 HKERLDITKEKEKENLOGLVSROFTIIGELEKOLSRA----- 240
 QY 232 RIINOQISTNEIQSDQNLUKLPPPLPTMPLTS-----LPSSTDPKSPGRDCIALE 283
 Db 241 -----TNNSIQLQKQLEL---MDTVAHLVSLCTKGULLXGGKREBEEKPRCDAVYQ 291
 QY 284 DGHDTSTYLVKPNTRNLQMOWQ-----GKQFQKQFQKQFQKQFQKQFQKQFQKQFQ 343
 Db 292 AGFNKSGIYTIVYFNNMPKPKVFCIMMDNGGWTIVQHEDSLDFORGKEYKQFGNP 351
 QY 344 DGETWLGNIFIWLTNDQNYKLVMTMDWSGRVAFAYASRFLPESBYYKLRGIGHN 403
 Db 352 SGEIWLGNIYIWTNDQNYKLVMTMDWSGRVAFAYASRFLPESBYYKLRGIGHN 411
 QY 404 AG--DSFTWNGKQFTLDRDVYTGNCARYQGWMQWYNAHNSLNGWWRGGHRSRYR 461
 Db 412 AGKOSSLIH-GADPSTKDADNDNCMCKCALMLTGWWFDACGSNNGMFYTAGQHNGK 470
 QY 462 YQCVWIFRGGSYISKVQVMIRP 487
 Db 471 L-NGIKHYFKGPSYSLSRTTMIRP 495

		RX	MEDLINE=99:26459; PubMed=9327494;
		RA	Tanaka S., Mori M., Sakamoto Y., Makuchi M., Sugimachi K.,
		RA	Ward J.R.
		RT	"Biologic significance of angiopoietin-2 expression in human hepatocellular carcinoma."
		RT	J. Clin. Invest. 103:341-345 (1999).
		RL	[3]
		RP	SEQUENCE FROM N.A. (ISOFORM 2).
		RC	TISSUE=Umbilical vein endothelial cells;
		RX	Medline=20309815; Pubmed=10766762;
		RA	Kim I., Kim J.-H., Ryu Y.S., Jung S.H., Nah J.J., Koh G.Y.;
		RT	"Characterization and expression of a novel alternatively spliced human angiopoietin-2."
		RT	J. Biol. Chem. 275:18550-18555 (2000).
		RL	- FUNCTION: Binds TO TIE2 RECEPTOR AND COUNTERACTS BLOOD VESSEL MATURATION / STABILITY MEDiated BY ANGIOPOIETIN-1. ITS FUNCTION MAY BE CONTEXT-DEPENDENT. IN THE ABSENCE OF ANGIOGENIC INDUCERS SUCH AS VEGF, ANG2-MEDIATED LOOSENING OF CELL-MATRIX CONTACTS MAY INDUCE ENDOTHELIAL CELL APOPTOSIS WITH CONSEQUENT VASCULAR REGRESSION. IN CONCERT WITH VEGF, IT MAY FACILITATE ENDOTHELIAL CELL MIGRATION AND PROLIFERATION, THUS SERVING AS A PERMISSIVE ANGIOGENIC SIGNAL.
		CC	- SUBCELLULAR LOCATION: Secreted.
		CC	- ALTERNATIVE PRODUCTS:
		CC	Name=1; Event=Alternative splicing; Named isoforms=2;
		CC	IsoID=015123-1; Sequence=Displayed;
		CC	-!- SIMILARITY: Contains 1 fibringogen C-terminal domain.
		CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation at the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).
		CC	--
		DR	EMBL; AR004327; ARB63190.1; --.
		DR	EMBL; BA09865; BA09590.1; --.
		DR	EMBL; AF018785; AAF76525.1; --.
		DR	HSPE1; P02671; 1F2D.
		DR	Genew; HGNC:415; ANGPT2.
		DR	MIM: 601922; --.
		DR	C:extraacellular space; TAS.
		DR	GO: 0005615; C:extracellular space; TAS.
		DR	GO: 0005102; F:receptor binding; TAS.
		DR	GO: 0007165; signal transduction; TAS.
		DR	InterPro; IPR002181; FibrinoGen_C.
		DR	Pfam; PF00147; fibrinogen_C; 1.
		DR	SMART; SM00186; FBG_1.
		DR	PROSITE; PS00514; FIBRIN AG C DOMAIN; 1.
		KW	Angiogenesis; Glycoprotein; Coiled coil; Signal; Alternative splicing.
		FT	SIGNAL, 1 POTENTIAL.
		FT	CHAIN, 16 ANGIOPOIETIN-2.
		FT	DOMAIN, 130 COILED COIL (POTENTIAL).
		FT	280 496 FIBRINOGEN C-TERMINAL.
		FT	DISULFID, 284 313 BY SIMILARITY.
		FT	DISULFID, 437 450 N-LINKED (GLCNAC. . .) (POTENTIAL).
		FT	CARBONYD, 89 89 N-LINKED (GLCNAC. . .) (POTENTIAL).
		FT	CARBONYD, 119 119 N-LINKED (GLCNAC. . .) (POTENTIAL).
		FT	CARBONYD, 133 133 N-LINKED (GLCNAC. . .) (POTENTIAL).
		FT	CARBONYD, 151 151 N-LINKED (GLCNAC. . .) (POTENTIAL).
		FT	CARBONYD, 240 240 N-LINKED (GLCNAC. . .) (POTENTIAL).
		FT	CARBONYD, 304 304 N-LINKED (GLCNAC. . .) (POTENTIAL).
		FT	CARBONYD, 97 148 MISSING (in isoform 2). /PRTID:WP 001540.
		FT	CONFFLICT, 268 496 AA; MISSING (IN REF. 2). /PRTID:WP 001540.
		SEQUENCE	SEQUENCE FROM N.A.
		RN	SEQUENCE OF 307-498 FROM N.A.

Best Local Similarity		29.4%	Pred.	No. 17e-28;	
Matches		149;	Conservative	85;	
		Mismatches	169;	Indels	103;
RN	RA	RA	RA	RA	Gaps
RA	Sato S., Nagase T., Seki N., Isikawa K.-I., Tabata S.;	"Predicted sequences of unidentified human genes. I. The coding sequences of 40 new genes (KIAA001-KIAA040) deduced by analysis of randomly sampled cDNA clones from human immature myeloid cell line KG-1";	DNA Res.	1:27-35(1994).	15;
RN	RA	Nakatsukasa M., Komai K., Shiozawa S.;	RA	Submitted [APRANK-2002] to the EMBL/GenBank/DDBJ databases.	
RN	RP	SEQUENCE FROM N.A., AND VARIANT GLY-269 DEL.	RP		
RN	RA	Shan Z.X., Yu X.Y., Lin Q.Y., Fu Y.H., Tan H.H., Zheng M., Lin S.G., "Human angiopoietin-1 mRNA variant forms";	RT		
RN	RL	Submitted [JUN-2002] to the EMBL/GenBank/DDBJ databases.	RT		
CC	CC	-!- FUNCTION: Binds AND ACTIVATES TIE2 RECEPTOR BY INDUCING ITS TYROSINE PHOSPHORYLATION. IMPLICATED IN ENDOTHELIAL DEVELOPMENTAL PROCESSES LATER AND DISTINCT FROM THAT OF VEGF. APPEARS TO PLAY A CRUCIAL ROLE IN MEDIATING RECIPROCAL INTERACTIONS BETWEEN THE ENDOTHELIUM AND SURROUNDING MATRIX AND MESENCHIME. MEDIATES BLOOD VESSEL MATURATION/STABILITY. IT MAY PLAY AN IMPORTANT ROLE IN THE HEART EARLY DEVELOPMENT.	CC		
CC	CC	-!- SUBCELLULAR LOCATION: secreted.	CC		
CC	CC	-!- PGM: Glycosylated.	CC		
CC	CC	-!- MISCELLANEOUS: IT MAY HAVE A POTENTIAL THERAPEUTIC UTILITY SINCE IT CAN BE USED FOR SPECIFICALLY TARGETING TUMOR VASCULATURE OR FOR PROMOTING ANGIOGENIC PROCESSES IN CERTAIN ORGANS SUCH AS AN ISCHEMIC HEART.	CC		
CC	CC	-!- SIMILARITY: Contains 1 fibrinoen C-terminal domain.	CC		
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DR	DR	EMBL: U83508; AAB50557.1; -; ALT INIT.	DR		
DR	DR	EMBL: D15628; BAA02793.2; -; ALT INIT.	DR		
DR	DR	EMBL: AB084454; BAA91325.1; -.	DR		
DR	DR	EMBL: AY121504; AAM81745.1; -.	DR		
DR	DR	EMBL: AY124380; AAM92271.1; -.	DR		
DR	DR	HSSP: P0271; IFZD.	DR		
DR	DR	GeneID: 444; ANGPTL.	DR		
DR	DR	MIM: 601667; -.	DR		
DR	DR	GO: GO:0005102; F: receptor binding; TAS.	DR		
DR	DR	INTERPRO: IPR002181; Fibronectin_C.	DR		
DR	DR	PIR: PF00147; fibrinogen_C; 1.	DR		
DR	DR	SMART: SM00186; FBG; 1.	DR		
DR	DR	PROSITE: PS00514; FIBRIN_AC_DOMAIN; 1.	DR		
KW	KW	Angiogenesis; Glycoprotein; Coiled coil; Signal; Polymorphism.	KW		
FT	FT	SIGNAL 15 POTENTIAL.	FT		
FT	FT	CHAIN 16 498 ANGIOPOIETIN-1 COILED COIL (POTENTIAL).	FT		
FT	FT	DOMAIN 81 119 COILED COIL (POTENTIAL).	FT		
FT	FT	153 261 COILED COIL (POTENTIAL).	FT		
FT	FT	284 498 FIBRINOEN C-TERMINAL.	FT		
FT	FT	286 315 BY SIMILARITY.	FT		
FT	FT	DISULFID 439 452 BY SIMILARITY.	FT		
FT	FT	92 92 N-LINKED (GLCNAC. . .) (POTENTIAL).	FT		
FT	FT	122 122 N-LINKED (GLCNAC. . .) (POTENTIAL).	FT		
FT	FT	154 154 N-LINKED (GLCNAC. . .) (POTENTIAL).	FT		
FT	FT	243 243 N-LINKED (GLCNAC. . .) (POTENTIAL).	FT		
FT	FT	295 295 N-LINKED (GLCNAC. . .) (POTENTIAL).	FT		
FT	FT	269 269 Missing '(in cell line T98G; may be due to exon slippage)'.	FT		
SEQUENCE	498 AA;	57513 MW;	/FT=DVAR 00940;	CRC64;	
SEQUENCE	498 AA;	57513 MW;	/FT=DVAR 00940;	CRC64;	21.3%; Score 572.5; DB 1; Length 498;
Query Match					

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CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
CC NCBI_TaxID=9606; [1]
RN RN
RF SEQUENCE FROM N.A.
RC TISSUE-Aorta;
RX MEDLINE-99222854; PubMed=10218486;
RA Nishimura M., Miki T., Yashima R., Yokoi N., Yano H., Sato Y.,
RA Seino S.; "Angiopoietin-3, a novel member of the angiopoietin family.",
RT FEBS Lett. 448:254-256(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE-Ovary;
RX MEDLINE-99162530; PubMed=10051567;
RA Valentzula D.M., Griffiths J.A., Rojas J., Alarich T.H., Jones P.F.,
RA Zhou H., McClain J., Copeland N.G., Gilbert D.J., Jenkins N.A.,
RA Huang T., Papadopoulos N., Maisonneuve P.C., Davis S.,
RA Yancopoulos G.D.; "Angiopoietins 3 and 4: diverging gene counterparts in mice and
RT humans.", Proc. Natl. Acad. Sci. U.S.A. 96:1904-1909(1999).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE-21638749; PubMed=11780052;
RA Deloukas P., Matthews L.H., Ashurst J., Burton J., Gilbert J.G.R.,
RA Jones M., Stevries G., Almeida J.P., Babbage A.K., Baquiley C.L.,
RA Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M., Brown A.J.,
RA Beasley O.P., Bird C.P., Blahey S.E., Bridgeman A.W., Brown N.P.,
RA Burrell W.D., Butler A.P., Garder C., Carrer N.P.,
RA Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M.,
RA Clegg S., Copley V.E., Collier R.B., Connor R.E., Corby N.R.,
RA Coulson A., Coville G.J., Deadman R., Dhami P.D., Dunn M.,
RA Ellington A.G., Frankland J.A., Fraser A., French L., Garner P.,
RA Graham D.V., Griffiths C., Griffiths M.N.D., Guillam R., Hall R.E.,
RA Hammond S., Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J.,
RA Huckle E., Hunt A.R., Hunt S.E., Jekosch K., Johnson C.M., Johnson D.,
RA Kay M.P., Kimberley A.M., King A., Knights A., Lird G.K., Lawlor S.,
RA Lehtovaisioaho M.H., Leversha M.A., Lloyd C., Lloyd D.M., Lovell J.D.,
RA March V.L., Martin S.L., McConnauglie L.J., McIay K., McMurray A.A.,
RA Milne S.A., Misra D., Moore M.J.F., Mullikin J.C., Nickerson T.,
RA Oliver K., Parker A., Patel R., Pearce T.A.V., Peck A.I.,
RA Phillimore B.J.C.T., Prathalingam S.R., Plumb R.W., Ramay H., Sims S.,
RA Rice C.M., Ross M.T., Scott C.E., Seira H.K., Showkeen R., Sims S.,
RA Skuce C.D., Smith M.L., Soderlund C., Stewart C.A., Sulston J.E.,
RA Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A.,
RA Tracey A., Tremain A.C., Vaudin M., Wall M., Willis J.M.,
RA Whinehead S.L., Whittaker P., Willey D.L., Williams L., Williams S.A.,
RA Wilming L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S.,
RT Rogers J.; "The DNA sequence and comparative analysis of human chromosome 20.",
Nature 414:865-871(2001).
RN ACTIVATES IT.
CC SUBCELLULAR LOCATION: Secreted (probable).
CC -!- TISSUE SPECIFICITY: HIGHLY EXPRESSED IN THE LUNG WITH MUCH LOWER
CC LEVELS FOUND IN OTHER TISSUES.
CC -!- SIMILARITY: Contains 1 fibrinogen C-terminal domain.
CC -!- CAUTION: Was originally (Ref.1) called angiopoietin-3.
CC -!- FUNCTION: BINDS TO TYROSINE-PROTEIN KINASE RECEPTOR TIE2 AND
CC ACTIVATES IT.
CC -!- SUBCELLULAR LOCATION: Secreted (probable).
CC -!- TISSUE SPECIFICITY: HIGHLY EXPRESSED IN THE LUNG WITH MUCH LOWER
CC LEVELS FOUND IN OTHER TISSUES.
CC -!- SIMILARITY: Contains 1 fibrinogen C-terminal domain.
CC -!- CAUTION: Was originally (Ref.1) called angiopoietin-3.
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CC or send an email to license@isb-sib.ch).
CC -----
CC AF074337; AAD31728.1; -
DR EMBL; AF113708; AAD21587.1; -
DR EMBL; AL161939; CAC0993.1; -
DR HSSP; P02671; IFZD.
DR Genew; HGNC:487; ANGPT4.
OS Homo sapiens (Human).

RESULT 8

AGP4_HUMAN STANDARD; PRT; 503 AA.

ID AGP4_HUMAN; STANDARD; PRT; 503 AA.

AC Q9Y264; Q9H24; [1]
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 26-FEB-2003 (Rel. 41, Last annotation update)

DE Angiopoietin-4 Precursor (ANG-4) (ANG-3).

GN ANGPT4 OR ANG4 OR ANG3.

OS Homo sapiens (Human).

DR MIM: 6031705; -; F:transmembrane receptor protein tyrosine kin. . ; MAS.
 DR GO: GO:0030297; F:transmembrane receptor protein tyrosine kin. . ; MAS.
 DR InterPro: IPR002181; Fibrinogen_C.
 DR PR00147; Fibrinogen_C; 1.
 DR SMART: SW00186; FBG; 1.
 DR PROSITE: PS00514; FIBRIN_ANC_DOMAIN; 1.
 DR KW Coiled coil; Signal.
 FT SIGNAL 1 24 POTENTIAL.
 FT CHAIN 25 503 ANGIOTENSIN-4.
 DR DOMAIN 84 238 COILED COIL (POTENTIAL).
 FT DOMAIN 287 474 FIBRINOGEN C-TERMINAL.
 FT DISULFID 291 320 BY SIMILARITY.
 FT DISULFID 444 457 BY SIMILARITY.
 SQ 503 AA; 56848 MW; 79CEB2P6B532340 CRC64;
 RP TISSUE=Liver;
 RC MEDLINE=2238257; PubMed=12477932;
 RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shemesh C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Schatz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Caminoci P., Prange C.,
 RA Barta S.S., Loqueilano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Murzy D.M., Sodegeorgie E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
 RA Scherzer A., Schein J.E., Jones S.J.M., Marra M.A.,
 RA "Generation and initial analysis of more than 15,000 full-length
 RT human and mouse cDNA sequences." Proc. Natl. Acad. Sci. U.S.A. 99:16999-16903(2002).
 CC -!- SUBMIT: Has hepatocyte mitogenic activity.
 CC -!- FUNCTION: Human (Probable).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Liver specific.
 CC -!- SIMILARITY: Contains 1 fibrinogen C-terminal domain.
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 CC ---
 DR EMBL; D1446; BAA03336.1; -.
 DR EMBL; D87342; BAB70690.1; -.
 DR EMBL; BC007047; AAH07047.1; -.
 DR HSPB; P02671; 1;2D.
 DR Genew; HGNC:3695; FGII.
 DR MIM; 60576; -.
 DR GO; GO:0005577; C:fibrinogen complex; TAS.
 DR InterPro: IPR00181; Fibrinogen_C.
 DR PR00147; Fibrinogen_C; 1.
 DR SMART: SW00186; FBG; 1.
 DR PROSITE: PS00514; FIBRIN_ANC_DOMAIN; 1.
 DR KW Signal.
 FT SIGNAL 1 22 FIBRINOGEN-LIKE PROTEIN 1.
 FT CHAIN 23 312 FIBRINOGEN C-TERMINAL.
 FT DOMAIN 78 305 INTERCHAIN (POTENTIAL).
 FT DISULFID 26 26 BY SIMILARITY.
 FT DISULFID 83 112 BY SIMILARITY.
 FT DISULFID 248 261 BY SIMILARITY.
 FT DISULFID 15 15 I --> T (IN REF. 3).
 FT CONFLICT 69 69 N --> D (IN REF. 1).
 FT CONFLICT 72 72 I --> V (IN REF. 1).
 FT CONFLICT 105 105 P --> L (IN REF. 2).
 RESULT 9
 FGLL_HUMAN STANDARD; PRT; 312 AA.
 ID FGLL_HUMAN
 AC Q08830; Q9K6W6; Q960M5;
 DT 28-FEB-2003 (Rel. 4.1, Created)
 DT 28-FEB-2003 (Rel. 4.1, Last sequence update)
 DT 10-OCT-2003 (Rel. 4.2, Last annotation update)
 DE Fibrinogen-like protein 1 precursor (Hepatocyte-derived fibrinogen-related protein 1) (HFREP-1) (Hepassocin) (HP-041).
 DE FGLL OR HFREP1.
 GN Homo sapiens (Human).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Buterilia; Primates; Catarrhini; Homidae; Homo.
 RN NCBI_TaxID=9607;
 RP [1] SEQUENCE FROM N.A.
 RC TISSUE=Liver;
 RX MEDLINE=93290661; PubMed=8390249;
 RA Yamamoto T., Gotoh M., Sasaki H., Terada M., Kitajima M.,
 RA Hirotsuji S.,
 RT "Molecular cloning and initial characterization of a novel
 molecular cloning and initial characterization of a novel
 fibrinogen-related gene, HFREP-1.", Biophys. Res. Commun. 193:681-687(1993).
 RL Blochem. Biophys. Res. Commun. 193:681-687(1993).
 RN [2]
 RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
 RC TISSUE=Liver;
 RX MEDLINE=2136035; PubMed=11470158;
 RA Hara H., Yoshimura S., Uchida S., Toyoda Y., Aoki M., Sakai Y.,
 RA Morimoto S., Shiokawa K.; "Molecular cloning and functional expression analysis of a cDNA for human hepatocin, a liver-specific protein with hepatocyte mitogenic activity.", Biophys. Acta 1520:45-53(2001).
 RL [3]
 RN SEQUENCE FROM N.A.
 RC TISSUE=Liver;
 RX MEDLINE=2238257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shemesh C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Schatz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Caminoci P., Prange C.,
 RA Barta S.S., Loqueilano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Murzy D.M., Sodegeorgie E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
 RA Scherzer A., Schein J.E., Jones S.J.M., Marra M.A.,
 RA "Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences." Proc. Natl. Acad. Sci. U.S.A. 99:16999-16903(2002).
 CC ---
 CC -!- SUBMIT: Has hepatocyte mitogenic activity.
 CC -!- TISSUE SPECIFICITY: Liver specific.
 CC -!- SIMILARITY: Contains 1 fibrinogen C-terminal domain.
 CC ---
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 CC or send an email to license@isb-sib.ch).
 CC ---
 DR EMBL; D1446; BAA03336.1; -.
 DR EMBL; D87342; BAB70690.1; -.
 DR EMBL; BC007047; AAH07047.1; -.
 DR HSPB; P02671; 1;2D.
 DR Genew; HGNC:3695; FGII.
 DR MIM; 60576; -.
 DR GO; GO:0005577; C:fibrinogen complex; TAS.
 DR InterPro: IPR00181; Fibrinogen_C.
 DR PR00147; Fibrinogen_C; 1.
 DR SMART: SW00186; FBG; 1.
 DR PROSITE: PS00514; FIBRIN_ANC_DOMAIN; 1.
 DR KW Signal.
 FT SIGNAL 1 22 FIBRINOGEN-LIKE PROTEIN 1.
 FT CHAIN 23 312 FIBRINOGEN C-TERMINAL.
 FT DOMAIN 78 305 INTERCHAIN (POTENTIAL).
 FT DISULFID 26 26 BY SIMILARITY.
 FT DISULFID 83 112 BY SIMILARITY.
 FT DISULFID 248 261 BY SIMILARITY.
 FT DISULFID 15 15 I --> T (IN REF. 3).
 FT CONFLICT 69 69 N --> D (IN REF. 1).
 FT CONFLICT 72 72 I --> V (IN REF. 1).
 FT CONFLICT 105 105 P --> L (IN REF. 2).

SQ	SEQUENCE	312 AA:	36391 MW;	26BC82124E6660C2 CRC64;
Query Match	20.0%	Score 537; DB 1; Length 312;		POTENTIAL.
Best Local Similarity	39.6%	Pred. No. 1_5e-26; Indels 89; Gaps 9;		ANGIOPOTIN-2.
Matches	111; Conservative	Mismatches 40; Mismatches		COILED COIL (POTENTIAL).
				FIBRINOGEN C-TERMINAL.
QY	23.2 RITNQISTNBIQ---SDONLKLULPPPLPTMPMILSPPSTSDFKPSGFWRDCLQALDGDHD	287		BY SIMILARITY.
Db	50 KIKOLIQEQEVQFLDKGDN-----TVIDLGSKRQ---YADCSBEIFNDGY	92		BY SIMILARITY.
QY	288 TSSYLVLPENTNRLMQWCDQRHDPG3MTVIQRRLDGSVNFRNWEVYKQGFGN-----D	344		(POTENTIAL).
Db	93 LSGFYKIKRQLQSPAEPSVCDM SDGGGTIVIQRSDDSENENFRKGWDYENFGNFTQKH	151		N-LINKED (GLCNAC. .) (POTENTIAL).
QY	345 GEYMGILENIYWLNTQMLNQGNTKLWMDNSGRKVFAYASFRLEPESEVYKLRGRHGNAA	404		N-LINKED (GLCNAC. .) (POTENTIAL).
Db	152 GEYMGILGNKLHFLTLQEDYTLKIDLADEFFKNSRVAYQKNFKVGDEKFNYELNIGEYSGTA	211		N-LINKED (GLCNAC. .) (POTENTIAL).
QY	405 GDSFTR-----W-HNGKQFTTLDRHDHVYTGCNHYQKGWWMYACAHSLNLYGMYW	453		N-LINKED (GLCNAC. .) (POTENTIAL).
Db	212 GDSLGNFHPEPVQWMAHSCRMKFSTWDRDHNTYEGCABEDOSGWWMFRCHSANLNGVYY	271		N-LINKED (GLCNAC. .) (POTENTIAL).
QY	454 RGGHYRSRYQDGVTWAEFRGGSYSLKKVVMIRN--PN 490			N-LINKED (GLCNAC. .) (POTENTIAL).
Db	272 -SGPYTAKTDNGIVWYTHGWWYSLKSUVNKIRPNDIFPN 310			N-LINKED (GLCNAC. .) (POTENTIAL).
RESULT 10				
AGP2_PIG		STANDARD;	PRT:	496 AA.
ID				
AC	Q9BY7;			
DT	28-FEB-2003 (Rel. 41, Created)			
DT	28-FEB-2003 (Rel. 41, Last sequence update)			
DT	28-FEB-2003 (Rel. 41, Last annotation update)			
DE	Angiopoietin-2 precursor (ANG-2).			
GN	ANG2P2;			
OS	Sus scrofa (Pig).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.			
OX	NCB_I_TaxID:9823;			
RN				
RP	SEQUENCE FROM N.A.			
RX	MEDLINE:21153103; PubMed=11239987;			
RA	Kim I., Moon S.O., Pak Y.K., Moon S.K., Kim J.J., Koh G.Y.,			
RT	"The angiopoietin-tie2 system in coronary artery endothelium prevents oxidized low-density lipoprotein-induced apoptosis."			
RT	Angiogenesis. Res. 49:872-881(2001).			
RL				
CC	-!- FUNCTION: BINDS TO TIE2 RECEPTOR AND CONTRACTS BLOOD VESSEL MATURATION/STABILITY MEDATED BY ANGIOPOETIN-1. ITS FUNCTION MAY BE CONTEXT-DEPENDENT. IN THE ABSENCE OF ANGIOGENIC INDUCERS, SUCH AS VEGF, TIEG2-MEDIATED LOOSENING OF CELL-MATRIX CONTACTS MAY INDUCE ENDOTHELIAL CELL APOPTOSIS WITH CONSEQUENT VASCULAR REGRESSION. IN CONCERT WITH VEGF, IT MAY FACILITATE ENDOTHELIAL CELL MIGRATION AND PROLIFERATION, THUS SERVING AS A PERMISSIVE ANGIOGENIC SIGNAL (By similarity).			
CC	-!- SUBCELLULAR LOCATION: Secreted.			
CC	-!- SIMILARITY: Contains 1 fibrinogen C-terminal domain.			
CC				
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DR	EMBL: AF231228; AAKJ4993.1; -.			
DR	HSSP, P02671; IEDB.			
DR	InterPro; IPR002181; Fibrinogen_C.			
DR	Pfam; PF00147; Fibrinogen_C; 1.			
DR	SMART; SM00186; FBG; 1.			
DR	PROSITE; PS00514; FIBIN AG-C DOMAIN; 1.			
DR	Angiogenesis; Glycoprotein; Coiled coil; Signal.			
RESULT 11				
AGP1_BOVIN		STANDARD;	PRT:	481 AA.
ID	AGP1_BOVIN			
AC	O18220;			
DT	16-OCT-2001 (Rel. 40, Created)			
DT	16-OCT-2001 (Rel. 40, Last sequence update)			
DT	28-FEB-2003 (Rel. 41, Last annotation update)			
DE	Angiopoietin-1 precursor (ANG-1) (Fragment).			
GN	ANG1 OR ANGI.			
OS	Bos taurus (Bovine).			
OC	Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovidae; Bovinae; Bos.			
OX	NCB_I_TaxID:9913;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Ovary;			
RX	MEDLINE:99054348; PubMed=9840613;			

Goede V., Schmid T., Klimm S., Koziar D., Augustin H.G.;
 "Analysis of blood vessel maturation processes during cyclic ovarian
 angiogenesis.";
 Lab. Invest. 78:1385-1394 (1998).
 [2]

SEQUENCE OF 91-200 FROM N.A.
 TISSUE=Liver;
 MEDLINE=93451564; PubMed=9776732;
 RX
 RA
 Mandriota S.J., Pepper M.S.;
 RT Regulation of angiopoietin-2 mRNA levels in bovine microvascular
 endothelial cells by cytokines and hypoxia.;"
 Circ. Res. 83:852-859 (1998).

CC FUNCTION: BINDS AND ACTIVATES TIE2 RECEPTOR BY INDUCING ITS
 TYROSINE PHOSPHORYLATION. IMPLICATED IN ENDOTHELIAL DEVELOPMENTAL
 PROCESSES LATER AND DISTINCT FROM THAT OF VEGF. APPEARS TO PLAY A
 CRUCIAL ROLE IN MEDIATING RECIPROCAL INTERACTIONS BETWEEN THE
 ENDOTHELIUM AND SURROUNDING MATRIX AND MESENCHYME. MEDIATES BLOOD
 VESSEL MATURATION/STABILITY. IT MAY PLAY AN IMPORTANT ROLE IN THE
 HEART EARLY DEVELOPMENT (BY SIMILARITY).
 CC -1- SUBCELLULAR LOCATION: Secreted
 CC -1- DEVELOPMENTAL STAGE: Found to be expressed throughout the ovarian
 CC cycle
 CC -1- SIMILARITY: Contains 1 fibrinogen C-terminal domain.
 CC
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 CC
 DR EMBL; AF093573; AAC61872.1; -.
 DR AF032923; AAC78245.1; -.
 DR HSSP; P02671; IFZD.
 DR InterPro; IPR02181; Fibrinogen_C.
 DR Pfam; PF00147; fibrinogen_C; 1.
 DR SMART; SW00185; FBG_1.
 DR PROSITE; PS0014; FIBRIN AG C DOMAIN_1.
 KW Angiogenesis; Glycoprotein; Coiled coil; Signal.
 FT SIGNAL_1 15 POTENTIAL.
 FT CHAIN_1 16 >481 ANGIOPOIETIN-1.
 FT DOMAIN_1 153 261 COILED COIL (POTENTIAL).
 FT DOMAIN_2 283 >481 FIBRINOGEN C-TERMINAL.
 FT DISULFID 285 314 BY SIMILARITY.
 FT DISULFID 438 451 BY SIMILARITY.
 FT CARBOHYD 92 92 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 122 122 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 154 154 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 243 243 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 294 294 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT NOLITER 481 481 NOLITER
 SQ SEQUENCE 451 AA; 55556 MW; 8EBC9ED84FC2BB50 CRC64;
 Query Match 20.0%; Score 536.5; DB 1; Length 481;
 Best Local Similarity 28.5%; Pred. No. 2.7e-26;
 Matches 146; Conservative 86; Mi matches 186; Indels 95; Gaps 16
 Qy 14 LAAMGAVAGQBDGFGTERCOPSPREFTYLNKVKRAGESQDKCTTYTFVPO-----QRTVG 67
 Db 10 LAALITHIGGSNORRSPENG-----RPNRNGO---CAYTFILPERDGNCEESTID 60
 Qy 68 AICVNKE--PEV-----LLNRYVHQELLENNELIK--QKRQLETLQO- 108
 61 QYNTNALORDAPHVQEDESSOKLOHLEHYMEN-YTWQLOKIENTVVENKMSMQQON 118
 109 -----LVKUDGGIVSEVKKLRKESRANSRQLYQMLHLERIKRNQALESQLEN 160
 119 AVONHTATMELGGTSLSLT---ABQTKLTDVETQVNLNOTSRLEIQLLNSLSTYKLEK 175
 Qy 161 RIANQTAQDLQLASKYKDLBKY-----QHIAQAHNOSETIAQLE 202
 176 QLIQQTNEILKIKHNSLJLHEKLFEMEGKHKEELDTKEEKENQOLGVTRQTYVIQOLESK 235

QY 203 HCQRVPSARPVOPPPAPPRVYQQPTYNRITQNISTNEIOSDQNLLKVLPPPLPTMPLT 262
Db 236 QLNRTATNNNSVLO-----KQKLEMPTVHNLU-NLTKEV----- 269
QY 263 SLPSSTDPKSGWRCQALEDGHDTTSIYLVKPEINTRLMOWVCPORHDGGWTVIQR 322
Db 270 LLIKGGKEKEEKFRRDADYVQAGFKNSGIIYIVINNMPKKVFCMDLNGGGWTIQHR 329
QY 323 LIGSVNFNFRNMYTYKOGFGNIDGEYMLGLENLYWLQNQGNYKLIVMEDNSGRKFAEYA 382
Db 330 EDGSLDQRGWKEYKOMFGNISGEYMLGNFIFATTSQORTLRLSILDDNGENRYSQD 389
QY 383 SFRLEPSEYYKLRGLRYHNGA- DSFTWINGKQTFLDRDHVTGNCAHYQKGWWY 440
Db 390 RPHGNBKNTYKRLYKHTGTAGKOSSLIM-GADFSKBDADNDNCMKCALMLTGWWP 448
QY 441 NACAHSLUNGWIRGGHVRSPYQDGWYWAERG 473
Db 449 DACGPPSNLNGMPYTAGQNHCKL-NG-KWYFKG 480

RESULT 12

AGP2_MOUSE

ID	NAME	STANDARD	PRT	496 AA.
AC	035608;			
DT	15-OCT-2001 (Rel. 40, Created)			
DT	16-OCT-2001 (Rel. 40, Last sequence update)			
DT	28-FEB-2003 (Rel. 41, Last annotation update)			
DE	Angiopoietin-2 precursor (ANG-2).			
DS	Mus musculus (Mouse)			
OC	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurograthi; Muridae; Murinae; Mus			
OX	NCBI_TaxID:10890;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE:Uterus;			
RA	Medline=9734927; PubMed=9204896;			
RA	Malenquer P.C., Suri C., Jones P.F., Bartunkova S., Wiegand S.J., Radziejewski C., Compton D.L., McLain J., Aldrich T.H., Papadopoulos N., Daly T.J., Davis S., Sato T.N., Yancopoulos G.D.: "Angiopoietin-2, a natural antagonist for Tie2 that disrupts in vivo angiogenesis"; Science 277:55-60(1997).			
RA	-- FUNCTION: BINDS TO TIE2 RECEPTOR AND COUNTERACTS BLOOD VESSEL MATURATION/STABILITY MEDATED BY ANGIOPOIETIN-1. ITS FUNCTION MAY BE CONTEXT-DEPENDENT. IN THE ABSENCE OF ANGIOGENIC INDUCERS, SUCH AS VEGF, ANG2-MEDIATED LOOSENING OF CELL-MATRIX CONTACTS MAY INDUCE ENDOTHELIAL CELL APOPTOSIS WITH CONSEQUENT VASCULAR REGRESSION. IN CONCERT WITH VEGF, IT MAY FACILITATE ENDOTHELIAL CELL MIGRATION AND PROLIFERATION, THUS SERVING AS A PERMISSIVE ANGIOGENIC SIGNAL.			
CC	- - SUBCELLULAR LOCATION: Secreted.			
CC	- - TISSUE SPECIFICITY: Expressed only at sites of vascular remodeling.			
CC	- - SIMILARITY: Contains 1 fibrinogen C-terminal domain.			
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DR	EMBL; AF00426; AAB63189; 1; --.			
DR	HSSP; P02671; 1FZD.			
DR	MGD; MGJ:1202890; Agpt2.			
DR	InterPro; IPR00281; Fibrinogen_C.			
DR	Fran; PP0017; fibrinogen_C; 1.			
DR	SMART; SM00186; FBG; 1.			
DR	PROSITE; PS00514; FIBRIN_AG_C DOMAIN; 1.			

Best Local Similarity	30.5%	Pred.	No. 9-6e-26;	Mismatches	126;	Indels	113;	Gaps	12;
Matches	135;	Conservative							
QY	92	INNBBLKURR--DQEINLQLKRVDDGIVSVEVLRKESRMRNSVTLKLQHIEIR	147	RN	RP	LYS-478.			
Db	89	LOQTIVQERPIRKSIEDLRNTV-----DSRSRTSSSTFQXITLQWIK	133	RN	RN	Ricder M.J., Carrington D.P., Chung M.-W., Lee K.L., Poel C.L., Yi Q.,			
QY	148	KRNNALELSQLENRLMNOTADMQLASKYKDLHEKYQHLATLAHNOSEIAQLEEHCQRY	207	RN	RN	Nicherson D.A., Nickeron D.A., Submittted (JUN-2001) to the EMBL/GenBank/DBJ databases.			
Db	134	GRQMV--QDNANWVNEYSSHLERKQYLID-----ETVKAN-----	167	RN	RN	[5]			
QY	262	TLSPLSTTMRSGPMRDTCQALEGDHTISSLYMKPENTNRNQWMDQRHPGGWVTLQR	321	RN	RN	SEQUENCE OF 31-491, AND CARBOHYDRATE-LINKAGE SITE.			
Db	208	CNIPVPUVSGK----ECKHTRNEGETSEMYLIQPEDSSKPYRVCQMKTRGGWVION	261	RN	RN	Henschien A., Lottspeich F., Southan C., Topfer-Petersen E.,			
QY	168	-----IPTKURVLSILENLRSKIQLESVDSTQMEYCRTCTVT-	207	RN	RN	"Human fibrinogen; sequence, sulfur bridges, glycosylation and some structural variants."			
QY	288	CNIPVPUVSGK----ECKHTRNEGETSEMYLIQPEDSSKPYRVCQMKTRGGWVION	261	RN	RN	(In) Peeters H. (eds.), "Proteins of the biological fluids," Pergamon Press, Oxford (1980).			
Db	322	RLDGGSVNFPRNWEETYKQFGNI-----DGYWLGIENTWLTNCNYKLWT	369	RN	RN	SEQUENCE OF 31-491.			
QY	262	ROGSVDPGRKWKPYKGFGNATNAQGKKGKCYGVPSQYWLNQDRIQINTNGPTKLIEM	321	RN	RN	Watt K.W.K., Takagi T., Doolittle R.F.; MEDLINE=7912640; PubMed=420779;			
QY	370	EDWSGRKTYFEAYASFRLEPESEYVQLRGRYHNAGD-----SFTWANGKQ	415	RN	RN	"Amino acid sequence of the beta chain of human fibrinogen.";			
Db	322	EDWKGDKTYALVYEGFTVQNEAKWVQLSYSSKYGCTAGNATLIEGASQLVGENRTMTHNSM	381	RN	RN	Biochemistry 18:68-76(1979). [7]			
QY	416	FTTLDRIDDVY----TCAHAKQGGWYNACAHSLNGLNGWYRGHHY---RSRYQDG	465	RN	RN	SEQUENCE OF 31-498, AND DISULFIDE BONDS.			
Db	382	FSTYDRDNGWKTIDPRKQCSKBGGWWYNRCHAANPNGRYIWGGAY"WDMAKHGTDDG	441	RN	RN	MEDLINE=76225080; PubMed=936108;			
QY	465	VWAAEFRRGGSYSKTKVVMWIRP	487	RN	RN	RN			
Db	442	VWMNNWQSSWYSKRMNSKIRP	463	RN	RN	RN			
RESULT 14									
FB2B_HUMAN									
ID	P-BB_HUMAN	STANDARD;	PRT;	491 AA.					
AC	P02675								
DT	21-JUL-1986	(Rel. 01, Created)							
DT	01-JUN-1993	(Rel. 25, Last sequence update)							
DT	10-OCT-2003	(Rel. 42, Last annotation update)							
DE	Fibrinogen beta chain precursor	[Contains: Fibrinopeptide B].							
GN	FGB								
OS	Homo sapiens (Human)								
OC	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; OXA_Eukaryota; Eutheria; Primates; Catarhini; Hominoidea; Homo; NCBI_TaxID=9606;								
RN	[1]								
SEQUENCE FROM N.A.									
RP	MEDLINE=91344740; PubMed=2102623;								
RA	Chung D.W., Harris J.E., Davie E.W.; Chung D.W., Harris J.E., Davie E.W.; sequences of the three genes coding for human fibrinogen."								
RT	"Nucleotide sequences of the three genes coding for human fibrinogen."								
RL	Adv. Exp. Med. Biol. 281:39-48(1990).								
RN	[2]								
RP	SEQUENCE FROM N.A.								
RA	MEDLINE=8323433; PubMed=668356;								
RA	Chung D.W., Que B.G., Rixon M.W., Mace M. Jr., Davie E.W.; characterization of complementary deoxyribonucleic acid and genomic deoxyribonucleic acid for the beta chain of human fibrinogen."								
RT	"Characterization of complementary deoxyribonucleic acid and genomic deoxyribonucleic acid for the beta chain of human fibrinogen."								
RL	Biochemistry 22:3244-3250(1983).								
RN	[3]								
RP	SEQUENCE FROM N.A.								
RA	Chung D.W., Harris J.E., Davie E.W.; Chung D.W., Harris J.E., Davie E.W.; nucleotide sequences of the three genes coding for human fibrinogen."								
RT	"Nucleotide sequences of the three genes coding for human fibrinogen."								
RL	(In) Liu C.Y., Chien S. (eds.);								
RL	Fibrinogen, thrombosis, coagulation and fibrinolysis, pp.39-48, Plenum Press, New York (1991).								
RN	[4]								
RP	SEQUENCE FROM N.A., AND VARIANT SER-100; HIS-170; LEU-265 AND								
RN	[15]								

RN LYS-478.

RN Ricder M.J., Carrington D.P., Chung M.-W., Lee K.L., Poel C.L., Yi Q.,

RN Nickeron D.A., Nickeron D.A., Submittted (JUN-2001) to the EMBL/GenBank/DBJ databases.

RN [5]

RN SEQUENCE OF 31-491, AND CARBOHYDRATE-LINKAGE SITE.

RN Henschien A., Lottspeich F., Southan C., Topfer-Petersen E.,

RN "Human fibrinogen; sequence, sulfur bridges, glycosylation and some structural variants."

RN (In) Peeters H. (eds.), "Proteins of the biological fluids," Pergamon Press, Oxford (1980).

RN [6]

RN SEQUENCE OF 31-491.

RN Watt K.W.K., Takagi T., Doolittle R.F.; MEDLINE=7912640; PubMed=420779;

RN "Amino acid sequence of the beta chain of human fibrinogen.";

RN Biogcheinistry 18:68-76(1979). [7]

RN SEQUENCE OF 31-498, AND DISULFIDE BONDS.

RN MEDLINE=76225080; PubMed=936108;

RN Blomback B., Hessel B., Hogg D.; Blomback B., Hessel B., Hogg D., "Disulfide bridges in NH2-terminal part of human fibrinogen.";

RN Thromb. Res. 8:639-658(1976).

RN SEQUENCE OF 1-38 FROM N.A.

RN MEDLINE=8714688; PubMed=322972;

RN Huber P., Dalton J., Courtous G., Laurent M., Assouline Z., Marguerie G.; Marguerie G.; Characterization of the 5'-flanking region for the human fibrinogen beta gene.",

RN Ann. N.Y. Acad. Sci. 408:28-43(1983).

RN [8]

RN Nucleic Acids Res. 15:1615-1625(1987).

RN [9]

RN SEQUENCE OF 31-44.

RN Blomback B., Blomback M., Grondahl N.J., Guthrie C., Hinton M.; Acta Chem. Scand. 19:1788-1789(1965).

RN [10]

RN REVIEW, AND DISULFIDE BONDS.

RN MEDLINE=83254370; PubMed=6575689;

RN Henrichen A., Lottspeich F., Kehl M., Southan C.; "Covalent structure of fibrinogen.";

RN Ann. N.Y. Acad. Sci. 408:28-43(1983).

RN [11]

RN DISULFIDE BONDS.

RN MEDLINE=7245999; PubMed=891553;

RN Gaardlund B., Hessel B., Marguerie G., Murano G., Blomback B., "Primary structure of human fibrinogen. Characterization of disulfide-containing cyanopen-bromide fragments.";

RN Eur. J. Biochem. 77:555-610(1977).

RN [12]

RN DISULFIDE BONDS.

RN Doolittle R.F., Takagi T., Watt K.W.K., Bouma H. III, Gottrell B.A., Cassman K.G., Golbaum D.M., Doolittle L.R., Friezner S.J.; "The structures of fibrinogen and fibrin.";

RN (In) Magnusson S., Ottosen M., Folmann B., Danø K., Neutack H. (eds.); "Regulatory proteolytic enzymes and their inhibitors, pp.163-172, Pergamon Press, New York (1978).

RN [13]

RN REVIEW, EM STRUCTURE, POLYMERIZATION, AND LIGANDS.

RN MEDLINE=8430751; PubMed=6383194;

RN Doolittle R.F., "Fibrinogen and fibrin.";

RN Annu. Rev. Biochem. 53:195-229(1984).

RN [14]

RN X-RAY CRYSTALLOGRAPHY (2.9 ANGSTROMS) OF 164-491.

RN MEDLINE=9747408; PubMed=933233;

RN Spraggan G., Everett S.J., Doolittle R.F.; "Crystal structures of fragment D from human fibrinogen and its crosslinked counterpart from fibrin.";

RN Nature 389:455-462(1997).

RN [15]

- RP X-RAY CRYSTALLOGRAPHY (2-3 ANGSTROMS) OF 164-491.
 RX MEDLINE=91292395; PubMed=9628125;
 RA "Everse S.J., Spraggan G., Veerapandian J., Riley M., Doolittle R.F.;
 RT Crystal structure of fragment double-D from human fibrin with two
 RT different bound ligands.";
 RL Biochemistry 37:8637-8642(1998).
 RN [16]
- RP X-RAY CRYSTALLOGRAPHY [1].
 RX MEDLINE=9175089; PubMed=10074346;
 RA "Everse S.J., Spraggan G., Veerapandian J., Doolittle R.F.,
 RT "Conformational changes in fragments D and double-D from human
 RT fibrinogen upon binding the peptide ligand Gly-His-Arg-Pro-amide.";
 RL Biochemistry 38:2941-2946(1999).
 RN [17]
- RP INTERACTION WITH FBN1L.
 RX MEDLINE=95370284; PubMed=7642629;
 RA Iran H., Tanaka A., Litvinovich S.V., Medved L.V., Haudenschild C.C.,
 RT Argraves W.S.;
 "The interaction of fibulin-1 with fibrinogen. A potential role in
 RT hemostasis and thrombosis.";
 RL J. Biol. Chem. 270:19458-19464(1995).
 RN [18]
- RP VARIANT BALTIMORE-2 LYS-478.
 RX MEDLINE=89058942; PubMed=3194932;
- RA Schmelzer C.H., Ebert R.F., Bell W.R.;
 RT "A polymorphism at B beta 448 of fibrinogen identified during
 structural studies of fibrinogen Baltimore II.";
 RL Thromb. Res. 52:173-177(1988).
 RN [19]
- RP VARIANT ISE ARG-45.
 RX MEDLINE=91208409; PubMed=2018336;
 RA Yoshida N., Wada H., Morita K., Hirata H., Matsuda M., Yamazumi K.,
 RA Asakura S., Shikakawa S.;
 "A new congenital abnormal fibrinogen Ise characterized by the
 RT replacement of B beta glycine-15 by cysteine.";
 RL Blood 77:1958-1963(1991).
 RN [20]
- RP VARIANT NAPLES THR-98.
 RX MEDLINE=92240664; PubMed=1634610;
 RA Koopman J., Haavik F., Lord S.M., Gruberben J., Mannucci P.M.,
 RT "Molecular basis of fibrinogen Naples associated with defective
 thrombin binding and thrombophilia. Homozygous substitution of B beta
 68 Ala-->Thr.";
 RL J. Clin. Invest. 90:238-244(1992).
 RN [21]
- RP VARIANTS IJMUIDEN CYS-44 AND NIJMEGEN CYS-74.
 RX MEDLINE=92228809; PubMed=1656541;
- RA Koopman J., Haverkate F., Gruberben J., Engesser L., Novakova I.,
 RA Kerst R.J.A., Lord S.T.;
 RT "Abnormal fibrinogens IJmuiden (B beta Arg14-->Cys) and Nijmegen (B
 beta Arg44-->Cys) form disulfide-linked fibrinogen-albumin
 complexes";
 RT Proc. Natl. Acad. Sci. U.S.A. 89:3478-3482(1992).
 RN [22]
- RP VARIANT NEW YORK-1 39-GLY--LEU-102 DBL.
 RX MEDLINE=85157605; PubMed=2156836;
 RA Liu C.Y., Koehn J.A., Morgan F.J.;
 RT "Characterization of fibrinogen New York 1. A dysfunctional
 RT fibrinogen with a deletion of B beta(9-72) corresponding exactly to
 RT exon 2 of the gene.;"
 RL J. Biol. Chem. 260:4390-4396(1985).
 RN [23]
- RP VARIANTS GLU-2; LEU-265 AND LYS-478.
 RX MEDLINE=99118093; PubMed=10391209;
- RA Cargill M., Altschuler D., Ireland J., Sklar P., Ardlie K., Patil N.,
 RA Shaw N., Lane C.R., Lin E.P., Kalyanaraman N., Nemeth J., Ziaugra L.,
 RA Friedland L., Rolfe A., Warrington J., Lipschutz R., Daley G.Q.,
 RA Landier E.S.;
 RT "Characterization of single-nucleotide polymorphisms in coding regions
 of human genes.";
 RL Nat. Genet. 22:231-238(1999).
 RN [24]
- RP ERRATUM.
- Query Match 19.6%; Score 526.5; DB 1; length 491;
 Best Local Similarity 30.3%; Pred. No. 1.2e-25; Mismatches 114; Indels 139; Gaps 16;
 Matches 138; Conservative 64; Mismatches 114; Gaps 16;
- Qy 92 INNELLKKKQKQIETLQLQVLRKVUDGGIVSVKLLRKESRRNNNSRVTL-----YMQLMIEI 145
 Db 112 LQEALNLQQRPIRN-----SVD-----ELNNVAEVASQTSSSFRQMYLKD 154
- Qy 146 IRKEDNLA-----LSQLENRL-----NQADMLOLASKDLEKHYOHAT 188
 Db 155 WOKRQKQVKNDNTVNEYSSSELEKHQLYIDETVNSNPTNLRVRSILENLRSKIQL-- 212
- Qy 189 LAHHQSEETIAQLERHBCQVRPSARARVPQPPOPPAAPRVYQPPPTYRILNGISTNFIQSQNL 248
 Db 213 ---ESDVSRQNM-EYC-RTPCT-----VSNC----- 232
- Qy 249 KVLPPLPLPMTLTSPLSSTDKESGPWRDQLQLEDDHTTSYLVKPENTNLQMWC 308
 Db 233 -----IPV-----SG-----RECEETIRKGGETSEEMYLQDSSVKPYRVVCD 271
- Qy 309 QRHDPGGWTVIQRRLDGTSNFFRNWETYKQFGNII-----DGEYWIGLENITYW 356
 Db 272 MTTENGGWTVIQNRQDGSDVFGKRDQPKQFGFSGNVATWDGKRYCGLPGEYWLGNDKSQ 331
- Qy 357 LTNQGNYKLUTMDWSGKSKVAFAYASRPLEPSEYYKURLSGYHGNGD----- 406
 Db 332 LTRGPTELLIEMEDWKGRKVKAHYGGFTVQNEANKYQQLSVNKRGRTGIGNALMDGASQIM 391
- Qy 407 ---SFTWMNGKQFTLDPDHVYTGN---CAHYQKGWWWNACASNLSNGWYRQGH 457
 Db 392 GENRTMTTNGMFYSTYDRDNGWLTSPRKCSKEDGGWWYRANCHANPGRYYWGQ 451
- Qy 458 Y----RSRYQDGTYWAERGGSYSLKVKUMMRP 487
 Db 452 YTWDWAKHGDDGTVWMNNKGWSYSMRKNMSKIRP 486
- Db
- RESULT 15
- FIBA_CHICK STANDARD PRT 741 AA.
- ID FIBA_CHICK
 AC P14448;
 DT 01-JAN-1990 (Rel. 13, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
- DE Fibrinogen alpha/alpha-E chain precursor [Contains: Fibrinopeptide A].
- GN FGA.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 NCBI_TaxID=9031;
 RN [1] SEQUENCE OF 1-4 FROM N.A.
- RP

Search completed: July 30, 2004, 12:36:37
Job time : 14 secs

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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: July 30, 2004, 12:30:59 ; Search time 44 Seconds (without alignments)

3535.228 Million cell updates/sec

Title: US-10-018-386-2

Perfect score: 2686

Sequence: I MRLCVTWWLGLIAGAV.....GSYSLKKVVMTRPNPNTFH 493

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SPREMBL_25:
 1: sp_archaea:
 2: sp_bacteria:
 3: sp_fungi:
 4: sp_human:
 5: sp_invertebrate:
 6: sp_mammal:
 7: sp_mtgc:
 8: sp_organelle:
 9: sp_phage:
 10: sp_plant:
 11: sp_rabbit:
 12: sp_virus:
 13: sp_vertebrate:
 14: sp_unclassified:
 15: sp_virus:
 16: sp_bacteriopl:
 17: sp_archeap:

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2561	95.3	493	11	Q8BMO9 Q8bm09 mus musculu
2	2546	94.8	493	11	Q8JU03 Q9j03 rattus norv
3	1507.5	56.1	491	4	Q95841 O95841 homo sapien
4	1353	50.4	236	4	Q8N219 homo sapien
5	1296	48.3	332	11	Q9CZ28 Q9cz28 mus musculu
6	1245.5	46.4	484	13	Q7SXV7 Q7sxv7 brachydanio
7	1110	41.3	191	4	Q8NCH7 Q8nch7 homo sapien
8	1094.5	40.7	470	4	Q8N199 Q8ni99 homo sapien
9	1093.5	40.6	470	4	Q9BZ20 Q9bz20 homo sapien
10	987	36.7	457	11	Q8R026 Q8r026 homo sapien
11	929	34.6	200	11	Q8BMV1 Q8bmv1 mus musculu
12	906.5	33.7	197	13	Q8B199 xenopus lae
13	580.5	21.9	513	13	Q90Z19 Q90z19 brachydanio
14	577.5	21.3	498	11	Q8C2K6 Q8c2k6 mus musculu
15	565	21.0	498	6	Q9BDY8 Q9bdy8 sus scrofa
16	558	20.8	461	4	Q8N539 Q8n539 homo sapien

ALIGNMENTS

RESULT 1

Q8BM09 PRELIMINARY PRT: 493 AA.

ID Q8BM09; PRELIMINARY; PRT: 493 AA.

AC Q8BM09;

DT 01-MAR-2003 (TreMBLrel. 23, Created)

DT 01-MAR-2003 (TreMBLrel. 23, Last sequence update)

DT 01-OCT-2003 (TreMBLrel. 25, Last annotation update)

DE Angiopoietin-related protein 2 precursor.

GN ANGPT2.

OS Mus musculus (Mouse).

OC Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus; NCBITaxID=10090;

RN [1]

SEQUENCE FROM N.A.

RP STRAIN=C7BL/6J; TISSUE=Thymus;

RR MEDLINE=2235483; PubMed=1466851;

RA The FANTOM Consortium,

RA the RIKEN Genome Exploration Research Group Phase I & II Team;

RT "Analysis of the mouse transcriptome based on functional annotation of full-length cDNAs.";

RL Nature 420:563-573 (2002).

DR EMBL; AK037265; BAC2970.1; -.

DR MGD; MGI:1347002; Angptl2.

DR InterPro; IPR02181; Fibronogen_C.

DR Pfam; PF00147; fibronogen_C; 1.

DR SMART; SM00186; FBG; 1.

DR PROSITE; PS00514; FIBRIN AG C DOMAIN; 1.

SEQUENCE 493 AA; 57105 MW; 228848010746BF2 CRC64;

Query Match 95.3%; Score 2861; DB 11; Length 493; Best Local Similarity 95.1%; Pred. No. 5.4e-171; Indels 0; Gaps 0; Matches 469; Conservative 9; Mismatches 15;

QY 1 MRPLCVTWWLGLIAGAVAGOEDGEEETEESPREFTYLNRYKRACESQDKCTYTIV 60

Db 1 MRPLCVTWWLGLIAGAVAGOEDGEEETEESPREFTYLNRYKRACESQDKCTYTIV 60

DQ 61 PQQRVTGAIKVNSKEPEVJELLENVRYHKQELELLNNELIKKQRIETLQQIVKVDGGIVSEV 120

Db 61 PQQRTGAI CVNSKEPEVHLLRNVKOBLLNELLKQKQETQQLVEDGGVSE 120 Qy
 Db 121 KLLRKESRNNRSVTQLQMLHLIRKRDNALSLNENRINTQADMQLASKYDLE 180 Qy
 Db 121 KLLRKESRNNRSVTQLQMLHLIRKRDNALSLNENRINTQADMQLASKYDLE 180 Qy
 Qy 181 HKYQHLLATLAHNOSEITIAOLEEHQCRVPSSARPVQOPPVYOPTYRINQSTN 240 Qy
 Db 181 HKFQHLLAHNQSEVIAOLEEHQCRVPSSARPVQOPPVYOPTYRINQSTN 240 Db
 Db 181 HKFQHLLAHNQSEVIAOLEEHQCRVPSSARPVQOPPVYOPTYRINQSTN 240 Qy
 Qy 181 HKYQHLLATLAHNOSEITIAOLEEHQCRVPSSARPVQOPPVYOPTYRINQSTN 240 Qy
 Db 241 EIQSQNKLVLPPPLPMTLSLPSSTDKPSGPWRWRCIQALEDGHTTSYLVKPENTN 300 Db
 Db 241 EIQSQNKLVLPPPLPMTLSLPSSTDKPSGPWRWRCIQALEDGHTTSYLVKPENTN 300 Qy
 Db 241 EIQSQNKLVLPPPLPMTLSLPSSTDKPSGPWRWRCIQALEDGHTTSYLVKPENTN 300 Qy
 Db 301 RLMQWVCDQRHDGGWTIQRRLGSVNPFRNWETYKQFGNIDGEYWLGENIYTNO 300 Qy
 Qy 301 RLMQWVCDQRHDGGWTIQRRLGSVNPFRNWETYKQFGNIDGEYWLGENIYTNO 300 Qy
 Db 301 RLMQWVCDQRHDGGWTIQRRLGSVNPFRNWETYKQFGNIDGEYWLGENIYTNO 300 Qy
 Db 361 GNYKLIVTMDWSGRKVTAEYASFRLEPESEYYKLRLGRYHNAGDSFTWNGKQFTLD 420 Db
 Qy 361 GNYKLIVTMDWSGRKVTAEYASFRLEPESEYYKLRLGRYHNAGDSFTWNGKQFTLD 420 Qy
 Db 361 GNYKLIVTMDWSGRKVTAEYASFRLEPESEYYKLRLGRYHNAGDSFTWNGKQFTLD 420 Db
 Qy 361 GNYKLIVTMDWSGRKVTAEYASFRLEPESEYYKLRLGRYHNAGDSFTWNGKQFTLD 420 Qy
 Db 421 RDHVYTGCAHYQKGWYNACAHNSNINGVWYRGHYSRQDGVWAERFGGSYSLKK 480 Db
 Qy 421 RDHVYTGCAHYQKGWYNACAHNSNINGVWYRGHYSRQDGVWAERFGGSYSLKK 480 Qy
 Db 421 RDHVYTGCAHYQKGWYNACAHNSNINGVWYRGHYSRQDGVWAERFGGSYSLKK 480 Db
 Qy 481 VWMIRPNPTFH 493 Qy
 Db 481 VWMIRPNPTFH 493 Db
 Db 481 VWMIRPNPTFH 493 Db
 Db 481 VWMIRPNPTFH 493 Db
 Db 481 VWMIRPNPTFH 493 Db

RESULT 2

QJU03 PRELIMINARY; PRT; 493 AA.

ID 094703 AC
 ID 094703 AC
 DT 01-OCT-2000 (TREMBREL. 15, Created)
 DT 01-OCT-2000 (TREMBREL. 15, Last sequence update)
 DT 01-JUN-2003 (TREMBREL. 24, Last annotation update)
 DE Angiotensin II type 1A receptor associated protein.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathii; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1] - TaxID=10116;
 RP SEQUENCE FROM N.A.
 RC STRAIN=Wister-Kyoto; TISSUE=Vascular smooth muscle;
 RA Gao D.F., Baranes D., Ono Y., Porter J.P., Abi-Jacoub E., Orlov S.N., Inagami T.; "A kAPI is required for recycling and resensitization of angiotensin II type 1A receptor"; Submitted (JUN-1999) to the EMBL/GenBank/DBJ databases.
 RL EMBL; AP159049; AAF80364.1; -. DR
 DR HSSP; P02671; 1PBD; GO:0004872; F:receptor activity; IEA.
 DR InterPro; IPR002181; Fibrinogen_C.
 DR SMART; SM00186; FBG_1.
 DR PROSITE; PS00514; FIBRIN_AC_DOMAIN; 1.
 DR Receptor.
 SQ SEQUENCE 493 AA; 57159 MW; 7C3-652C47B2B2341 CRC64;
 Qy Query Match 94.8%; Score 2546; DB 11; Length 493; Best Local Similarity 94.5%; Pred. No. 6e-170; Matches 466; Conservative 9; Mismatches 18; Indels 0; Gaps 0;

Db 1 MRPLCVTOWLGHLAANGAVAGQEDGREGTERGSRPFYIYRYKSGESQDKCYTFV 60 Qy
 1 MRPLCVTOWLGHLAANGAVAGQEDGREGTERGSRPFYIYRYKSGESQDKCYTFV 60
 Db 61 POORVTAICVNSKEPEVLEVRVKOELLENLKQKQETQOLQVYDGIVSEV 120 Qy
 61 POORVTAICVNSKEPEVLEVRVKOELLENLKQKQETQOLQVYDGIVSEV 120
 Db 61 POORVTAICVNSKEPEVLEVRVKOELLENLKQKQETQOLQVYDGIVSEV 120

RESULT 3

Q9541 PRELIMINARY; PRT; 491 AA.

ID 095841 AC
 ID 095841 AC
 DT 01-MAY-1999 (TREMBREL. 10, Created)
 DT 01-MAY-1999 (TREMBREL. 10, Last sequence update)
 DT 01-OCT-2003 (TREMBREL. 25, Last annotation update)
 DE Angiopoietin Y1 (DJ59C2.2) (Angiopoietin-related protein 1 precursor) (Angiopoietin-like 1).
 DE DJ59C2.2 OR ARPL.
 GN Homo sapiens (Human).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrini; Hominida; Homo.
 OX NCBI_TaxID=9506;
 RN [1] - TaxID=9506;
 RP SEQUENCE FROM N.A.
 RC TISSUE=Heart;
 RA MEDLINE:99108829; PubMed=10025962; Kim I., Kwak H.J., Ann J.E., So J.N., Liu M., Koh K.N., Koh G.Y.; "Molecular cloning and characterization of a novel angiopoietin family protein, angiopoietin-3." FEBS Lett. 443:353-356(1999).
 RL [2]
 RP SEQUENCE FROM N.A.
 RA Cobley V.; Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.
 RL [3]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Placenta;
 RA Ota T., Nishikawa T., Kawai Y., Suzuki Y., Ishii S., Saito K., Yamamoto J., Sugano S., Inogai T.; "HRI human cDNA sequencing project"; Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
 RL [4]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Placenta;
 RA Ota T., Nishikawa T., Kawai Y., Yasunaga K., Matsumoto S., Ota T., Nishikawa T., Yamamoto J., Sugano S., Inogai T.; "HRI human cDNA sequencing project"; Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
 RL [5]

RP SEQUENCE FROM N.A.
 RC TISSUE=Ovary;
 RA Strausberg R.; Submitted (APR-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL_AF107253; AAD19608_1; -;
 EMBL_AL35522; CAC3169_1; -;
 EMBL_AB06476; BAB0691_1; -;
 EMBL_BC050640; AAH0640_1; -;
 HSSP_P0271; IEDB_Go; GO:0005102; F:receptor binding; TAS.
 DR InterPro; IPR00181; Fibrinogen_C.
 DR Pfam; PF00147; fibrinogen_C; 1.
 SMART; SM00186; FBG; 1.
 PROSITE; PS00514; FIBRIN_AG_C_DOMAIN; 1.
 KW SIGNAL; 1; 23 POTENTIAL.
 FT CHAIN 24 491 AA; 56719 MW; 3C4DB8DEF6CF7E99 CRC64;
 SQ SEQUENCE 491 AA,
 Best Local Similarity 56.1%; Score 1507.5; DB 4; Length 491;
 Matches 290; Conservative 69; Mismatches 109; Indels 27; Gaps 9;
 Query 9 WMLGLLAAMGAVAGAQEDGEGFEGTEEGSPREF---TYNRYKRAGESQD--KCTYTFIVP 61
 6 WITIGVLFPLLVDTGHCRG-----GQFKIKKINQRYYFRATDGKEAKKCAVTFLPV 56
 QY 62 QORVGTGICVSKERPEV-LLENRVHKQELLENLKQREIQETQOLQYKVDGSGIVSEV 120
 57 EORITGPICVNTKGQDASTIKOMTMDLENKLADVISROKRBDVQLQWVUDGNIVNEV 116
 Db 121 KURKKESENMRNSRTQLYMOLIHEIRKRDNALELSOLENLLNQPADMLQASKYLE 180
 Db 117 KURKKESENMRNSRTQLYMOLIHEIRKRDNALELSOLENLLNQPADMLQASKYLE 176
 QY 181 HKYQHQLATLHNQSEITAQLEBHCORYPSARPVQDPP--AAPPRVYQPTTYRNQI 237
 177 VKYASLPLDVNNOSWMTILEQCLRFSDRQDTHSPVQVUPQI--ENSOQTGPGL 234
 Db 238 STNEBIQSQDNL--KVLPPIPMTMPTT--SISSTDKPSGPWRDCQALQALEDGHDTSY 292
 GGEI1QDPGPYPRDLMPDPDLATSPKSPKIPPPVTPINEQPFKDOQAKEAGHSVGY 294
 Db 293 LYKPENTNRLMOWCWDGRHDPGWTVIQRRLDGVAFFRNNTMYKQFGNGNDGEYVIGLE 352
 295 MKPENSINGPMOLWCENSLDPGGWTVIQRRLDGVSFPRNWENYKKGGNIDGETWIGLE 354
 Qy 353 NIYWLTMQGNYKULVMEWDWSRKVEFAYASRFLERPESEYYKURGIGRYHGAGDFTWHN 412
 355 NTYMLSNDNYKULLEBDWSDKVVAYBSFLERPESEYYKURGIGRYHGAGDSMWNH 414
 Db 413 GKOFTLDRHDVYTGNCAYHQKGGMWYNACAHNSLINGWVTRGHHYRSYQD3YWAEPRGGSYSLKVVMMRPNPNTFH 493
 QY 415 GKOFTLDRHDVYTGNCAYHQKGGMWYNACAHNSLINGWVTRGHHYRSYQD3YWAEPRGGSYSLKVVMMRPNPNTFH 474
 Db 473 GGSYSLKVKVMMTRP 487
 Db 475 GGSYSLRAVQMMK 489
 RESULT 5
 Q9CZ8 ID: Q9CZ8 PRELIMINARY; PRT; 332 AA.
 AC Q9CZ8;
 DT 01-JUN-2001 (TREMBl, 17, Created)
 DT 01-JUN-2001 (TREMBl, 17, Last sequence update)
 DB 10 days embryo (TREMBl, RIKEN full-length enriched library, clone: 2610304820, full insert sequence.
 OS Mus musculus (Mouse)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus; NCBI_TAXID=10090;
 RN [1];
 RP SEQUENCE FROM N.A.
 STRAIN=C57BL/6J; TISSUE=Embryo;
 RX MEDLINE=21083660; PubMed=12127851;
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itch M., Ishii Y., Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S., Aizawa K., Irawa M., Nishi K., Kyosawa H., Kondo S., Yamamoto T., Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R., Kadota K., Matsuda H.A., Ashburner M., Balalov S., Casavant T., Fleischmann R., Gasterland R., Gissi C., King B., Kochiwa H., Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pescio G., Quackenbush J., Schriml L., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T., Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barish G., Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F., Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M., Gustincich S., Hill D., Holmann M., Hume D.A., Kamiya M., Lee N.H., Lyons P., Marchionni L., Machima J., Mazzarelli J., Momberts P., Nordoe P., Ring B., Ringwald M., Rodriguez I., Sakamoto N., Sasaki H., Sato K., Schoenbach C., Seja T., Shibata Y., Storch K.-F., Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L., Wymshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kotsuki S., Hayashizaki Y.;
 Q9N2J9 PRELIMINARY; PRT; 236 AA.
 AC Q9N2J9;
 DT 01-OCT-2002 (TREMBl, 22, Created)
 DT 01-OCT-2002 (TREMBl, 22, Last annotation update)
 DT 01-OCT-2002 (TREMBl, 23, Last annotation update)
 DE Hypothetical protein FLJ90545.
 OS Homo sapiens (Human);
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo; OX NCBI_TAXID=9606;
 RN [1]

RT "Functional annotation of a full-length mouse cDNA collection.";
 RL Nature 409:685-690(2001).
 DR EMBL; AR011976; BAB27951.1; -;
 SEQUENCE 332 AA; 37721 MW; 9A6B464FC613038 CRC64;

Query Match? Best Local Similarity 48.3%; Score 1295; DB 11; Length 332; Matches 250; Conservative 9; Mismatches 14; Indels 0; Gaps 0; QY 1 MRPLCVTCWLGILGAAAGAVAGQEDGFEGTEGSPPRFITNRYKRAESQDKCTYTFIV 60
 Db 1 MRPLCVTCWLGILGATVATGATGPBADVEGTEDGSOREYIYLRYKRAESQDKCTYTFIV 60
 QY 61 PQQRTGATCVNSKEPEVLLENVKOELLENLKKQKROIETQQLVKUDGTVSEV 60
 Db 61 PQQRTGATCVNSKEPEVLLENVKOELLENLKKQKROIETQQLVKUDGTVSEV 60
 QY 121 KLRKESRNNSRVTOLYQMLIBIRKRNDAELSOLENRLNQADMLQASKYDLE 180
 Db 121 KLRKESRNNSRVTOLYQMLIBIRKRNDAELSOLENRLNQADMLQASKYDLE 180
 QY 181 HKYQHIAHTAHNOSETIAQLEEHQRCYPSARVPPQRPAPPRVYQOPTYRINOSTN 240
 Db 181 HKYQHIAHTAHNOSETIAQLEEHQRCYPSARVPPQRPAPPRVYQOPTYRINOSTN 240
 QY 241 EIOSDONQKVLPPPLPMTLSPSSDKPSG 273
 Db 241 EIOSDONQKVLPPPLPMTLSPSSDKPSG 273
 RESULT 6
 QTSXV7 PRELIMINARY; PRT; 484 AA.
 ID QTSXV7; MEDLINE=22398257; Published=12477932;
 AC DT 01-OCT-2003 (TREMBrel. 25, Last sequence update)
 DT 01-OCT-2003 (TREMBrel. 25, Last annotation update)
 DE Hypothetical protein (Fragment)
 OS Brachydanio rerio (Zebrafish) (Danio rerio).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
 OC Cyprinidae; Danio.
 OX NCBI_TaxID=7955;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=AB; TISSUE=Body;
 RA MEDLINE=22398257; Created=2003-10-01;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shemesh C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhag N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Seales M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carnicelli P., Prange C.,
 RA Raha S.S., Loquillard N.A., Peters G.J., Abramson R.D., Mullahay S.J.,
 RA Bosak S.A., McElwain P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Muzzny D.M., Soedergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettman J., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grinwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
 RA Krzywinski M.I., Skalska U., Smailus D.E., Schnech A., Schein J.E.,
 RA Jones S.J., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 and mouse cDNA sequences";
 RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=AB; TISSUE=Body;
 RA Strausberg R.;
 RL Submitted (JUL-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC055229; AAH55229.1; -;
 DR EMBL; BC055229; AAH55229.1; -;

Query Match? Best Local Similarity 49.0%; Score 1245.5; DB 13; Length 484; Matches 236; Conservative 85; Mismatches 138; Indels 23; Gaps 5; QY 8 CWWLGLIAAMGAVAGQEDGFEGTEGSPPRFITNRYKRAESQDKCTYTFIV 67
 Db 22 CWFLCULWCVRISSSSRQRORMEADP-----orQOQSYTFLIPEOKITG 68
 QY 68 ALCVNSKEVLLENVKOELLENLKKQKROIETQQLVKUDGTVSEV 127
 Db 69 PICA-SRGPSLDPDPRVTRDMSBLRQTLSRQREMETTRMVDVGDSDMVQMKLKRS 127
 QY 128 RNMNSRVTQYQMLIBIRKRNDAELSOLENRLNQADMLQASKYDLE 187
 Db 128 RNMNSRVTQYQMLIBIRKRNDAELSOLENRLNQADMLQASKYDLE 187
 QY 188 TLHNQSEITAQLEEHQRCYPSARVPPQRPAPPRVYQOPTYRINOSTNQSD 245
 Db 188 ERVNSQAELLALBECRVYQGRSRSRPSLQLVLPENI-PVVFVRSNEIQSNSTEE 245
 QY 246 QR----PGAAADTGERPAQNNSLKGPFRDYCAALQAGHVSQATLQPDQDTLTVQD 300
 Db 306 WCDQRHDPGGWTVQRLDGSVNFRMETYKOGFGNIDGEYWLGINIYMNTQGMYL 365
 Db 301 WCDRDVDRGWTUJQRKAGAVNSRSLKQSYKLFQGFDLOAFDGHDTSTTIVKPTNTNMQV 360
 QY 366 INTMDWSORKVFAEYASFRLEPESEVYKLRLGRHYENAGSDFTWGKQFTLDRHDV 425
 Db 361 LVNEDWHEKKVVAAYSSPHLEPESYOSYRLGQYONAGDSLTSNGRQFTLDRHDH 420
 QY 426 YTGNCAHQKGWYNAKAHSNINGWATRGHHSRQDGTVWAEEFGSYSLKKVVM 485
 Db 421 FSGNCQHQKGWYNAQGQTNLNGWVSGGVYRSRQDGTFWADYGGFYSMSKSVMMI 480
 QY 486 RP 487
 Db 481 RP 482
 RESULT 7
 QBNCH7 PRELIMINARY; PRT; 191 AA.
 ID QBNCH7; MEDLINE=22398257; Published=12477932;
 AC DT 01-OCT-2002 (TREMBrel. 22, Last sequence update)
 DT 01-OCT-2002 (TREMBrel. 22, Last annotation update)
 DT 01-MAR-2003 (TREMBrel. 23, Last annotation update)
 DE Hypothetical protein FLJ9245.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominida; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Isogai T., Ota T., Nishikawa T., Hayashi K., Otsuki T., Sugiyama T.,
 RA Suruki Y., Nagai K., Sugano S., Ishii S., Kawai-Hio Y., Saito K.,
 RA Yamamoto J., Wakamatsu A., Nakamura Y., Kojima S., Nagahari K.,
 RA Masuho Y., Ono T., Okano K., Yoshikawa Y., Aotsuka S., Sasaki N.,
 RA Hattori A., Okumura K., Iwayangji T., Niimomiya K.;
 RT "NEDO Human cDNA sequencing Project";
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AR074726; BAC1164.1; -;
 DR InterPro: IPR00181; Fibriogen_C.
 DR Pfam: PF00147; fibriogen_C; 1.
 DR SMART: SM0186; FBG; 1.
 DR PROSITE: PS00514; FIRIN_AG_C_DOMAIN; 1.
 KW Hypothetical protein.

SEQUENCE 191 AA; 22717 MW; D050F4E25A571F6A CRC64;

Query Match Local Similarity 41.3%; Score 1110; DB 4; Length 191; Best Local Similarity 100.0%; Pred. No. 5.3e-70; Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 303 MOWWC DORHDPGGWTVIQRRLDGSVNFR FRNTYKOGF GNIDGEY WLQGL ENTYWLTNQGN 362
Db 1 MOWWC DORHDPGGWTVIQRRLDGSVNFR FRNTYKOGF GNIDGEY WLQGL ENTYWLTNQGN 60

QY 363 YKVLLV NEDWSGRK VFAEYAS PLEPESE YKLRG RYHGA GSDFTW HNGK QFTL DRD 422
Db 61 YKVLLV NEDWSGRK VFAEYAS PLEPESE YKLRG RYHGA GSDFTW HNGK QFTL DRD 120

QY 423 HDVYT GNC AYHQKG GWWYNACAH SNTL NGW MTRGGH YRSR VQDG VWA FGG SLS KKV 482
Db 121 HDVYT GNC AYHQKG GWWYNACAH SNTL NGW MTRGGH YRSR VQDG VWA FGG SLS KKV 180

RESULT 8

Q8N199 PRELIMINARY; PRT; 470 AA.
ID Q8N199
AC Q8N199;
DT 01-OCT-2002 (TREMBLrel. 22, Created)
DT 01-OCT-2002 (TREMBLrel. 22, Last sequence update)
DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
DE ARP3.

GS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TAXID:9606; [1]
RN 1
RP SEQUENCE FROM N.A.
RA Oike Y., Suda T.;
RT "Molecular cloning of ARP3";
RL Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
DR EMBL; AB05064; BAB91248.1; -
DR InterPro; IPR00181; Fibrinogen_C.
DR PF00147; fibrinogen_C; 1.
DR SMART; SM00186; FBC; 1.
DR PROSITE; PS00514; FIBRIN AG C_DOMAIN; 1.
DR SEQUENCE: P470 AA; 51694 MW; FAD2B01B00965239 CRC64;
RN 121
RP SEQUENCE FROM N.A.
RA Oike Y., Suda T.;
RT "Molecular cloning of ARP3";
RL Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
DR EMBL; AB05064; BAB91248.1; -
DR InterPro; IPR00181; Fibrinogen_C.
DR PF00147; fibrinogen_C; 1.
DR SMART; SM00186; FBC; 1.
DR PROSITE; PS00514; FIBRIN AG C_DOMAIN; 1.
DR SEQUENCE: P470 AA; 51694 MW; FAD2B01B00965239 CRC64;

Query Match Local Similarity 46.3%; Pred. No. 2.1e-68; Matches 213; Conservative 73; Mismatches 147; Indels 27; Gaps 7;

QY 44 YKRAGE SDQK CTYTFIVPQ RYTA CYS NSKEPEV LLEN RYKQ ELLN ELLN KQKQI 103
Db 19 WARAG-A-APRC TYFVLP PKF QTGAV CNS GPA STRATE PAA MSEL ALR RV GRHE LL 76

QY 104 ETQOLIVK YQG GIVSEVK RL KRSR NMNS RVTOL YMO JIHE-----TIRKD NALF 155
Db 77 RELO LAAD GA VACK RL KRSR NMNS RVTOL YMO JIHE-----TIRKD NALF 136

QY 156 SQLEN RLI NQ TADMQL QAS KYK DLEH KYQH LAHN NS E TIAQ LEH E CQ RVPS ARPV PQ 215
Db 137 ALIGER VLN ASAE QRAA RARF HQD VL KF RL ALOV TQO SLLI ARRL ERIC PG GAG QQQV L 196

QY 216 PPAH PRVY QOPT YTRI IN QIS T-----EIQS QNL KU LP PPLP TMLT LS 267
Db 197 PPRPLV PVV--PV--RLV GTS DTS RMLD PAPE P QD P ODO P QEP M AS PMP--AGH PAV 249

QY 268 TD KPG PWR DQ LQ ALED GH DTS YL KV KENT RL MQ WCD QRD P GWT VI QRRL DSV 327
Db 250 PT KPG PWR QCA E ARQ A GH QSG YEL RV--G RIV U V C E Q D L E G G W T VI QRRL DSV 307

QY 328 NFFR M E TYK OG F G N ID GE Y WL Q GL EN T Y W LT N Q G N 387
Db 308 NF FTW QH Y KAG F G R P D GE W L G L E P V O L T S R Q D H E L V L L E W G G R A H Y D F S L E 367

QY 388 PESE YK LR G RY HGA G SFT W H N Q K Q F T L D S D H D V T G N C A Y Q OG G W W N A C H S N 447
Db 268 TD KPG PWR DQ LQ ALED GH DTS YL KV KENT RL MQ WCD QRD P GWT VI QRRL DSV 327

QY	448 LNGVWYRGCHYRSRYODAYTWAERFGSSYSLKVVNMIRP 487	Db	431 DGVVWAFRGGAYSILKAVNLTR 453
428	LNGVWYRGCHYRSRYODAYTWAERFGSSYSLKAVNLTR 467		
RESULT 10		RESULT 11	
OBR0Z6	PRELIMINARY;	O8BKV1	PRELIMINARY;
ID	PRT; 457 AA.	ID	PRT; 200 AA.
OBR0Z6		O8BKV1	
AC		AC	
DT	01-JUN-2002 (TREMBREL. 21, Created)	DT	01-MAR-2003 (TREMBREL. 23, Created)
DT	01-JUN-2002 (TREMBREL. 21, Last sequence update)	DT	01-MAR-2003 (TREMBREL. 23, Last sequence update)
DT	01-MAR-2003 (TREMBREL. 23, Last annotation update)	DT	01-OCT-2003 (TREMBREL. 25, Last annotation update)
DE	Similar to angiopoietin-related protein 5 (ARP3).	DE	Weakly similar to angiopoietin Y1 (fragment).
GN	Mus musculus (Mouse).	OS	Mus musculus (Mouse).
OS	Mus musculus (Mouse).	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Buteraria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OC	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Etheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	NCBI_TaxID=10090;	NCBI_TaxID=10090;
OX		RN	
RN	SEQUENCE FROM N.A.	RP	SEQUENCE FROM N.A.
RC	TISSUE=Liver;	RX	STRAIN=C57BL/6J; TISSUE=Body;
RA	Strausberg R.; Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.	RA	MEDLINE=223-4683; Published=2466851;
RL		RA	The FANTOM Consortium, the RIKEN Genome Exploration Research Group Phase I & II Team;
RN	[2]	RA	"Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs"; Nature 420:563-573 (2002).
RP	SEQUENCE FROM N.A.	RL	
RA	Matsumoto S., Saito Y., Masuho Y., Yasunaga K., Oike Y., Suda T.; Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.	DR	InterPro-IPR002181; Fibrinogen_C.
RN	[3]	DR	Pfam; PF00147; Fibrinogen_C; 1.
RP	SEQUENCE FROM N.A.	DR	SMART; SM00186; FBG; 1.
RA	Oike Y., Suda T.; "Molecular cloning of ARP3." EMBL/GenBank/DDBJ databases.	DR	PROSITE; PS00514; FIBIN_AG_C_DOMAIN; 1.
RT	Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.	FT	NON_TER_1
DR	EMBL; BC025904; AAH55904; 1, -.	SQ	SEQUENCE 200 AA; 23518 MW; B1EFF82E20171554 CRC64;
DR	EMBL; AB05065; BAB91249; 1, -.	Db	Query Match 34.6%; Score 929; DB 11; Length 200; Best Local Similarity 77.7%; Pred. No. 2. 6e-57; Matches 153; Conservative 25; Mismatches 19; Indels 0; Gaps 0;
DR	MGI; MG:197-976; 6330404; ILRik.	QY	351 LENYTWTNQGNTKLVTMEDNSGRKVFAYASFRPESEVYKLRGIVGNAGDSFTW 410
DR	InterPro; IPR00118; Fibrinogen_C.	Db	62 LDNIVKLQNQDNVYKLBLEDNSEKKAETTSFPRPESEVYKLRGIVGNAGSMM 121
DR	PFAM; PF00147; Fibrinogen_C.	QY	291 ILYVKPENTVRLMQVWQDQRHPPGWVVIQRLLDGSVNFNNRWEWTKQGFGNIDGEWLG 350
DR	PROSITE; PS00514; FIBIN_AG_C_DOMAIN; 1.	Db	2 LYMKPKENSGNQMLWENSLDPGGWTVIQLKSTDGSNFERNWENYKKGKGNDIGEWLG 61
DR	SEQUENCE 457 AA; 51095 MW; B7C4289E3FEC6C3B CRC64;	QY	351 LENYTWTNQGNTKLVTMEDNSGRKVFAYASFRPESEVYKLRGIVGNAGDSFTW 410
DR	Best Local Similarity 44.0%; Pred. No. 6. 9e-61; Matches 195; Conservative 78; Mismatches 146; Indels 24; Gaps 7;	Db	62 LDNIVKLQNQDNVYKLBLEDNSEKKAETTSFPRPESEVYKLRGIVGNAGSMM 121
QY	53 KTYTFVUPQPVATGACVNSKEPEVLLENRHKQLEBLNLKQKQIETQQLVRY 112	QY	411 HNGKQFTTLDRDVEDVYTCNYQKGGMWYNAHSNLNGWYRGGHYRSRYODGYWAE 470
Db	26 RGRVTLVSPQKATSAVCRSSEQATQ-----DSLATLURMRGRHEELRAQRMRE 77	Db	122 HNGKQFTTLDRDQTYTCNCFHKGGMWYNAHSNLNGWYRGGHYRSKHDQJFIAW 181
QY	113 DEGIVSEVKKLAKESRNNRNVYQMLQHMLHITRKDNAL---LSQLENRLNQTAQ 168	QY	471 FRGSSYSIKKVNMRP 487
Db	78 GEALADYVRAKREHSLTINTRIGQQLRQLQCARAEPDLSAPAAQGILARALDAE 137	Db	182 YRGSSYSIKKVNMRP 198
QY	169 MLQASKYKDLEHKYQHTLAHNHSBIIAQLEERHQVRVSARPVPOPPAAPP---PRV 224		
Db	138 ARRTARLQLQDQLQRLREHALQMSQHSSLGLRQLQAGPGRQQVLPPLAPLVPLSV 197		
QY	225 YQPPTVNRILQINQISTHEIQSIQNLKULPPIPLTPMPT-LTLPSSSTKPSCPWRQCLQAE 283	RESULT 12	
Db	198 GSASNTSRRLDQ-TPEHQEQSLRQGPQPSLLPQGHIAVPT--RPGQWRDCAEAHG 252	Q9UE9	PRELIMINARY;
QY	284 DGDTSIIVLYKPERNTNLQWACDORHDDQGWTQIQRDGSVNPRFWNTYKQFGNI 343	Q9UE9	PRT; 197 AA.
Db	253 AGHWQSYVYD--LGRRVIAVWCSQOEGGWTYIQRDGSNFTWVHRYKAFSP 310	AC	
QY	344 DGYWLGLENITYWLQGNYKLUVTMEDWSGRKVFAYASFRPESEVYKLRGIVGN 403	Q9UE9;	
Db	311 EGEYWLQLEPHQVTSRGDHLLILEDWGRARAHHYDSSLESDHYLRQHG 370	DT	01-JUN-2001 (TREMBREL. 17, Created)
QY	404 AGDSFTWHNGKQFTTLDRDHDVYTGTNCNAHTQKGGMWYNAHSNLNGWYRGGHYRSQ 433	DT	01-JUN-2001 (TREMBREL. 17, Last sequence update)
Db	371 AGDSLWHDNDRPFPSTVDRDRDSYSGNCALVYRGGMWYHACAHNSLNQGVWYHGGHYRSQ 430	DT	01-DEC-2001 (TREMBREL. 19, Last annotation update)
QY	464 DCVYWAFFRGSSYSLKVVNMIR 486	DE	Fibrinogen-like protein (Fragment).
RA	Amano T., Yoshihato K.; Isolation of genes involved in intestinal remodeling during anuran metamorphosis. " Submitted (JUL-1999) to the EMBL/GenBank/DDBJ databases.	OS	Xenopus laevis (African clawed frog).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae; Xenopidae; Xenopus.	NCBI_TaxID=8355;	
OX		RN	SEQUENCE FROM N.A.
RT		RT	
RT		RT	
RL		RT	

DR EMBL; AFI10323; AAK11499.1; -.

DR HSSP; P02671; 1F2D.

DR InterPro; IPR00181; Fibrinogen_C.

DR Pfam; PF00147; Fibrinogen_C; 1.

DR SMART; SW00186; FBG; 1.

FT NON_TER

SQ NON_TER 197 197

SQ SQSEQUENCE 197 AA; 22954 MW; 3409C6314E853896 CRC64;

Query Match 33.7%; Score 905.5; DB 13; Length 197; Best Local Similarity 84.9%; Pred. No. 9.6e-56; Mismatches 163; Conservative 11; Mismatches 15; Indels 3; Gaps 2;

Db Matches 163; Conservative 11; Mismatches 15; Indels 3; Gaps 2;

QY 198 AQEFECORVP-SARPVQOPPPAAPPVQOPTNINQISTNEQSDQNKVLPPLPPPL 255

Db 1 SQUEBHCRRKPTQPTKPLQ-PQQPNKVNPNWNRINQISTNEQDQNKLKPPL 59

QY 256 PTMPLTTSPSSTDKPSGRWDQHDLQALEDQHDTSIISLYLKPEINTRLMQWCDCORHDPGG 315

Db 60 PTMPLTTSPSSTDKPSGRWDQHDLQALEDQHDTSIISLYLKPEINTRLMQWCDCORHDPGG 119

QY 316 WTVQRDRIGSVIFPRNWETYKQDFGNITGEYWMGLNTYWLTDQNGYKULVMDWNSR 375

Db 120 WTVQRDRIGSVIFPRNWETYKQDFGNITGEYWMGLNTYWLTDQNGYKULVMDWNSR 179

QY 376 KVFAEYASRLE 387

Db 180 KMFAYASRLE 191

RESULT 13

ID 090219 PRELIMINARY; PRT; 513 AA.

AC 090219;

DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)

DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)

DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)

DE Brachydanio rerio (Zebrafish) (Danio rerio).

OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Teleostei; Ostariophysi; Cypriniformes; Angiopoietin_1.

OC Cyprinidae; Danio.

OC OC

DR NCBI_TaxID=7955;

RP [1]

RX SEQUENCE FROM N.A.

RA Pham V.N., Roman B.L., Weinstein B.M.; MEDLINE=21391593; PubMed=11500985;

RA "Isolation and expression analysis of three zebrafish angiopoietin genes.", Dev. Dyn. 221:470-474 (2001).

RA DR EMBL; AF379602; AAC83347.1; -.

RA DR ZDB-GENE; 0108017-1; angptl.

DR DR InterPro; IPR002181; Fibrinogen_C.

DR DR Pfam; PF00147; Fibrinogen_C; 1.

DR PROSITE; PS00514; FIBRIN_AGG_C_DOMAIN; 1.

DR PROSITE; PS00514; FIBRIN_AGG_C_DOMAIN; 1.

DR SEQUENCE; 513 AA; 58360 MW; 0527777A39847D8B CRC64;

Query Match 21.9%; Score 588.5; DB 13; Length 513; Best Local Similarity 30.5%; Pred. No. 6.2e-33; Mismatches 163; Conservative 87; Mismatches 200; Indels 85; Gaps 19;

Db Matches 163; Conservative 87; Mismatches 200; Indels 85; Gaps 19;

QY 9 WWLGL-LAAMGAVA---GORDGFGTEEGSPREFTYLN---RYKRAGESQDKCTYTFI 59

Db 2 WWGCFLLAALIIVADCGGYBKQTKTLWSSPKS---NASSGRFRHQ-Q-CSYTFI 55

QY 60 VPQORTGAIICVNNSCEPEVILLENVRHKQ---EELNNNLKQKROETLQQ-DVKVDG 114

Db 56 LPES---DGNTCREFFSGTAYNANALQDAPQPEADLSNQKIQVQLEHVMENYTQWIKQIEN 113

QY 115 GIVSEVVL-----LRKESRMNSRVQIYOMLHEI---IR 147

RESULT 14

ID Q8C2K6 PRELIMINARY; PRT; 498 AA.

AC Q8C2K6;

DT 01-MAR-2003 (TREMBlrel. 23, Created)

DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)

DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)

DE Angiopoietin.

OS Mus musculus (Mouse)

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OC OC

OX NCBI_TaxID=10090;

RP [1]

RX SEQUENCE FROM N.A.

RA STRAIN=NOD; TISSUE=Thymus; MEDLINE=22354583; PubMed=12466851;

RA The FANTOM Consortium;

RA the RIKEN Genome Exploration Research Group Phase I & II Team;

RT "Analysis of the mouse transcriptome based on functional annotation of RT 60-770 full-length cDNAs"; Nature 420:563-573 (2002).

RL DR EMBL; AK088439; BAC0354.1; -.

DR DR InterPro; IPR002181; Fibrinogen_C.

DR Pfam; PF00147; Fibrinogen_C; 1.

DR SMART; SW00186; FBG; 1.

DR PROSITE; PS00514; FIBRIN_AGG_C_DOMAIN; 1.

DR SEQUENCE; 498 AA; 57475 MW; 28D957468C5D800 CRC64;

Query Match 21.3%; Score 571.5; DB 11; Length 498; Best Local Similarity 29.7%; Pred. No. 9.2e-32; Mismatches 149; Conservative 83; Mismatches 175; Indels 95; Gaps 14;

Db Matches 149; Conservative 83; Mismatches 175; Indels 95; Gaps 14;

QY 43 RYKRAGESQDKCTYTFI 79

Db 32 RYNRIOHQG--CAYTFILPEHDGNCRSETQYNTALQDRAHPVDFESSQQLQHL3HV 89

QY 80 LENRVHQKQELLNLNLK_QKRQETLQQ---LYKUDGGSIVSEKLRKESR 129

Db 90 MEN---YTQWQKLENVYVENKSEMAQIQQAVQHNTATM斐GTSLSQT---ABOTRK 144

QY 130 MNSRVTOYQMLHETIRKRNALRISOLENRLINQSTADMQLASKYKDLHY---- 183

Db 145 LTDVETQVNLNTSRSLBIQIOLNSLTYKLERQQLQTNTEIHEINSLUHKKILMEGK 204

QY 184 -----OHLATLAHNOSETTAQLERHCQVPSARPVPQPPPAAPPVRYQPPTN 231

Db	205	HKEELDTKLKEKENLQGLVSRQTFIOLERKOLSHA-----
QY	232	RINQISTHBIOSDQNLLKVIFPPPLPTMPLTS---LPSSDKPSGPWRDGLQALBDGH 287
Db	241	-----TNNNSILQKQOLEMDAHHNVLISLCKGEGVLLKGGREREKPFRCADVVQAGEN 295
QY	241	-----TNNNSILQKQOLEMDAHHNVLISLCKGEGVLLKGGREREKPFRCADVVQAGEN 295
Db	288	TSSIVLVKPENTNRIMQWCDORHPGGWTVIQRHEDGSDFQRSGWKEYKQFGNPGSEY 347
QY	296	KSGTYITIYFVNMPKVKVFCMDVNGGWTVIQHEDGSDFQRSGWKEYKQFGNPGSEY 355
QY	348	WLGIENIYIWLTNQGYKLUUTMEDISGRKVFAYEVSFRLEPESEYKLRLGRYHENAG-- 405
Db	356	WLGIENIYIWLTNQGYKLUUTMEDISGRKVFAYEVSFRLEPESEYKLRLGRYHENAG-- 405
QY	406	DSFTWNGKQFTTLRHDHYTGNGAHYQKGWWNAACASNLNGWYRSHYRQYDG 465
Db	416	SSLTH-GADPSTKADNDNCMKCALMLTUGWWIDACGPSNLSNMFYTQAGQHNGKL-NG 473
QY	466	VWMELFRGGSYSIKVUWMMRP 487
Db	474	IKWHYFKGPSYSILRSSTIMMRP 495
RESULT 15		
Q9BDY8	PRELIMINARY:	PRT; 498 AA.
ID	Q9BDY8;	
AC	01-JUN-2001 (TREMBIREL. 17, Created)	
DT	01-JUN-2001 (TREMBIREL. 17, last sequence update)	
DT	01-DEC-2001 (TREMBIREL. 19, Last annotation update)	
DE	Argioprotein I ¹⁻¹¹ .	
OC	Sus scrofa (Pig).	
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.	
OX	NCBI_TaxID:9823;	
RN	[1]	
RP	SEQUENCE FROM N.A.	
RX	MEDLINE:21151563; PubMed:11230987;	
RA	KIM J., MON S.O., HAN C.Y., PAK Y.K., MOON S.K., KIM J.J., KOH G.Y.;	
RT	"The antiapoptotic tie-2 system in coronary artery endothelium prevents oxidized low-density lipoprotein-induced apoptosis.";	
RL	Cardiovasc. Res. 49:872-881(2001);	
DR	EMBL; AR233271; ARK14992.1; -.	
DR	PO2671; 1FZD.	
DR	InterPro:IPR002181; Fibringen_C.	
DR	Pfam: PF00147; fibrinogen_C; 1.	
DR	SMART: SM00186; FBC; 1.	
PROSITE: PS00514; FIBRIN AG C DOMAIN; 1.		
SEQUENCE	498 AA,	57413 MW, ABC1CBER56061876 CRC64;
Query Match	21.0 %;	Score 565; DB 6; Length 498;
Best Local Similarity	28.9 %;	Pred. No. 2.6e-31;
Matches	151;	Conservative
QY	14 LAAMGAVAOEDGEGTEGSPRETTIYKRAQSQDKTYTIVPO-----QRTVG 67	
Db	-----10 LAATITHIGCSNQRSPENG-----RRYNRICHQ-----CAYTRFLPEHDGNCRBSTD 60	
QY	68 AICNISKE--PEV-----LLENRIKQEELLNLILK_QKRQETLQO- 108	
Db	61 QYNTNALDAPHYEQFSSOKLHLHENW---YTWQKIENTVNNKSEMAMQIQN 118	
QY	109 -----LKVUDGGIVSEVKLURKESRNMNSRVOLYOMLHEITRKDNALEISOLEN 160	
Db	119 AVQNTATMLEIGSLLSQ-----RQTKLTDVETQVLNTSRIQIQLLNSLYKLEK 175	
QY	161 RILNQTDAMQLASRYKDLEHKYQHILATLAHQSEBIAQLEKHECVRPSARPVOPPPAA 220	
Db	176 QLQQTNEELKIKHEKNSLIEHKJLMEGHKHEELDTKLKEKENLQGLNTR----- 225	
QY	221 PPRYVQOPTYRINQISTNE-TOSDQNLLKVLPPLPTMPLTS-LPSSTDKPS----- 272	
Db	226 --QYIIOBKIKKOLNRAATTNSVQKQQ-----LEMDTVAHLVNLCTKEGULLKG 275	

Search completed: July 30, 2004, 12:37:32
Job time : 46 secs

Sequence 2173 BP: 538 A: 659 C: 611 G: 365 T: 0 U: 0 Other: 0
 Query Match 100.0%; Score 2173; DB 4; Length 2173;
 Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0;
 Matches 2173; Conservative 0; Indels 0; Gaps 0;

QY	1	GAAATGAGGGCTGGGACGCCTGAGGATGAAACCAAGCCCTGACCTGGCG	60
Db	1	GAATAAGGGCTGTGGGACGCCTGAGGATGAAACCAAGCCCTGACCTGGCG	60
QY	61	TGGCACTGGAGGGGTGAGGCTATGAGGGTGAAGGAAGGTGTGAGGAGCC	120
Db	61	TGGCACTGGAGGGGTGAGGCTATGAGGGTGAAGGAAGGTGTGAGGAGCC	120
QY	181	TCGAGCCAGTGGAGGAGGGCTGGCAGCAGGATGTGAGGAGCCGGCCCC	240
Db	181	TCGAGCCAGTGGAGGAGGGCTGGCAGCAGGATGTGAGGAGCCGGCCCC	240
QY	241	AGGGCCATGGACAGGCTGCCCGCTGAGGCCAGGGTGAAGGATGTGAGGAG	300
Db	241	AGGGCCATGGACAGGCTGCCCGCTGAGGCCAGGGTGAAGGATGTGAGGAG	300
QY	301	GGACCAAGCCTGAGGAGGGCTGGCAGCAGGACTGCGCCGCTGAGGAGCC	360
Db	301	GGACCAAGCCTGAGGAGGGCTGGCAGCAGGACTGCGCCGCTGAGGAGCC	360
QY	361	TGGCAAGACCATGAGGACACTGTGCGTACATGCTGTGGCTCGAACGAG	420
Db	361	TGGCAAGACCATGAGGACACTGTGCGTACATGCTGTGGCTCGAACGAG	420
QY	421	TCGAGGTGTGAGGGAGGGTGTGGGACTGAGGGGGTGTGGAGAG	480
Db	421	TCGAGGTGTGAGGGAGGGTGTGGGACTGAGGGGGTGTGGAGAG	480
QY	481	AGTCATTACCTAACAGGTAAGGGGGGGGGGGGGGGGGGGGGGGGGGG	540
Db	481	AGTCATTACCTAACAGGTAAGGGGGGGGGGGGGGGGGGGGGGGGGGG	540
QY	541	CCTCATGTGCCCCAACAGCGGGTGTGGGTTGCCATCTGCGTCATACTCCAGGACCGCTG	600
Db	541	CCTCATGTGCCCCAACAGCGGGTGTGGGTTGCCATCTGCGTCATACTCCAGGACCGCTG	600
QY	601	AGGTCTCTGGAGAACCGAGGTGATAGAGGAGGTAGAGGTGCTAACATGAGCTGC	660
Db	601	AGGTCTCTGGAGAACCGAGGTGATAGAGGAGGTAGAGGTGCTAACATGAGCTGC	660
QY	661	TCAAGAGAAGGGCAATCGAGACGGCTGCAACAGCTGGAGGTGACGGGGGATG	720
Db	661	TCAAGAGAAGGGCAATCGAGACGGCTGCAACAGCTGGAGGTGACGGGGGATG	720
QY	721	TGACCGAGGTGAGCTGTGGCAACAGAGGGCAACGGCGCACATGACTCGGGTCAACCAGC	780
Db	721	TGACCGAGGTGAGCTGTGGCAACAGAGGGCAACGGCGCACATGACTCGGGTCAACCAGC	780
QY	781	TCTACTTGAGCTCCGTGAGGATATCCGAAGGGGACAGCGTGTGGCTTCCC	840
Db	781	TCTACTTGAGCTCCGTGAGGATATCCGAAGGGGACAGCGTGTGGCTTCCC	840
QY	841	AGCTGGAGAACAGGATCTGACCGACAGCGACATGCTCAGCTGGCGCAGCAACTACA	900
Db	841	AGCTGGAGAACAGGATCTGACCGACAGCGACATGCTCAGCTGGCGCAGCAACTACA	900
QY	901	AGGACCTGGAGCAAGTACCGACAGGACTGCGCACATGGCCACACAAATGAGGATCA	960
Db	901	AGGACCTGGAGCAAGTACCGACAGGACTGCGCACATGGCCACACAAATGAGGATCA	960
QY	961	TCGCGAGCTGGAGGACACTGCCAGGGTCCCTCCGGCAGGCCGTCACCCAGCAC	1020
Db	961	TCGCGAGCTGGAGGACACTGCCAGGGTCCCTCCGGCAGGCCGTCACCCAGCAC	1020

QY 2101 AACTCTTCTTAAATAATTAAGTCCTACATAAACACACTGCAAGTAANAAA 2160
Db 2101 AACTCTTCTTAAATAATTAAGTCCTACATAAACACACTGCAAGTAANAAA 2160
QY 2161 AAAAAAAAGAAA 2173
Db 2161 AAAAAAAAGAAA 2173

RESULT 2

AAX252359 standard; cDNA; 2288 BP.
ID AAX252359;
AC AA252359;
XX XX
DT 24-JUL-2000 (first entry)
DE NSEQ gene; matrix-remodeling.
XX NSEQ gene; matrix-remodeling gene; Incyte clone 2268890; cancer;
KW matrix-remodeling disease; cardiomyopathy; arthritis; angiogenesis;
KW diabetic necrosis; atherosclerosis; fibrosis; ulceration; cytostatic;
KW radioactive; antiarthritic; angiogenic; antiarteriosclerotic; antiulcer;
KW ss.
XX Homo sapiens.
OS Homo sapiens.
FH Location/Qualifiers
FT 442..1923
FT /*tag= a
FT /product= "PSEQ protein"
FT sig_peptide 442..507
FT /*tag= b
XX w0200021986-A2.
PD 20-APR-2000.
XX 06-OCT-1999; 99K0-US023315.
PR 09-OCT-1998; 98US-00169289.
PA (INCY-) INCYTE PHARM INC.
XX Walker MG, Volkmarth W, Klingler TM;
DR XX WPI: 2000-317934/27.
P-PSPDB; AAYT0745.

XX Protein co-expressed with matrix-remodeling proteins, useful in the diagnosis and treatment of cancer, cardiomyopathy, arthritis, angiogenesis, diabetic necrosis, atherosclerosis, fibrosis, and ulceration.

PS Claim 1; Page 44-45; 55PP; English.

XX The present sequence is NSEQ gene that is co-expressed with one or more known matrix-remodeling genes in a number of biological samples using an expression vector. This sequence was identified from the Incyte clone 2268890. The gene, protein, and antibody sequences can be used in the diagnosis, and treatment or prevention of a disease associated with its altered expression. The diseases that can be treated are matrix-remodeling diseases, including cancer, cardiomyopathy, arthritis, angiogenesis, diabetic necrosis, atherosclerosis, fibrosis, and ulceration.

SQ Sequence 2288 BP; 548 A; 689 C; 647 G; 404 T; 0 U; 0 other;

Query Match 98 8%; Score 2146.2; DB 3; Length 2288;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2154; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 73 ATATGAGGCTGTGGAGACGGCCTGAGGATGCCAACGCCCTGGACTCCGAGCGTG 132
Db 63 GAACTGAGGCGAGCGGCTGACCTTGAGGAAGAAGSTGTTGAGCACCCCCCAGG 122
QY 133 GAACTGAGGCGAGCGGCTGACCTTGAGGAAGAAGAGTGTGAGCACCCCCCAGG 192
Db 123 ACCCTGGCCACCCCTGACCCAGCCTCTGGGGACCCCTTGAGGAGGAGGAGGTG 182
QY 193 ACCCTGGCCACCCCTGACCCAGCCTCTGGGGACCCCTTGAGGAGGAGGAGGTG 252
Db 183 GAGCCCATGAGGAGGGCTGTTGGAGCCACGGCCACGGGCTGAACTCGGAAACCCCTCG 242
Db 253 AGGCATGAGGAGGGCTGTTGGAGCCACGGCCACGGGCTGAACTCGGAAACCCCTCG 312
QY 243 AGGCATGAGGAGGGCTGTTGGAGCCACGGCCACGGGCTGAACTCGGAAACCCCTCG 302
Db 363 GCAAGACCATGAGGAGGGACTGCGGACACTGGGCTGACACTGGGCGGAGCTGAGTGGAGGAGGCCCG 372
Db 313 GCAAGACCATGAGGAGGGACTGCGGACACTGGGCTGACACTGGGCGGAGCTGAGTGGAGGAGGCCCG 372
Db 433 GCAAGACCATGAGGAGGGACTGCGGACACTGGGCTGACACTGGGCGGAGCTGAGTGGAGGAGGCCCG 492
QY 303 AGCCAAGCAGGAGGGAGGCTCTAGATCTATCACAAGATAACCCATT 362
Db 373 AGCCAAGCAGGAGGGAGGCTCTAGATCTATCACAAGATAACCCATT 432
Db 493 GAGAGCTGTCGAGGCCAGGAGACGGTTTGGGGACTGAGAGGGCTGCGCTGCGATG 552
QY 483 TCAATTACCTAACAGTACAGTACAGGGCTGAGCCAGGGTCTCAACATGAGTC 542
Db 553 TCAATTACCTAACAGTACAGGGCTGAGCCAGGGTCTCAACATGAGTC 612
QY 543 TCAATTACCTAACAGTACAGGGCTGAGCCAGGGTCTCAACATGAGTC 602
Db 613 TCAATTACCTAACAGTACAGGGCTGAGCCAGGGTCTCAACATGAGTC 672
QY 603 GAGCTTCTGGAAACCGGTGATAACAGGGCTAGAGCTCTCAACATGAGTC 662
Db 673 GAGCTTCTGGAAACCGGTGATAACAGGGCTAGAGCTCTCAACATGAGTC 732
QY 663 AGGAGAGCGGAGATGAGGAGGCTGAGCTGGAGCTGGTGAAGGTGAAGGCCAGTC 722
Db 733 AACAGAGAGGCGAGATGAGGAGGCTGAGCTGGAGCTGGTGAAGGCCAGTC 792
QY 723 AGGGAGGGTAAAGCTGGCGAGAGGAGGCCAACATGAGTC 782
Db 793 AGCGAGGTCAGCTGCTGGAGAGGCCAACATGAGTC 852
QY 783 TACATGAGCTCTGGAGAGATCATGGCAAGGGGAAACAGCTGGTGAAGGCCAGTC 842
Db 853 TACATGAGCTCTGGAGAGATCATGGCAAGGGGAAACAGCTGGTGAAGGCCAGTC 912
Db 843 CTGGAGAACAGATCTGAAACAGACGCCGATGGCAAGTGGCCAGAGTAAAG 902
Db 913 CTGGAGAACAGATCTGAAACAGACGCCGATGGCAAGTGGCCAGAGTAAAG 972
QY 903 GACCTGGAGCACAGTACAGACCTGGCCAACTGGCCAACACATCAAGATCATC 962
Db 973 GACTGGAGCACAGTACAGACCTGGCCAACTGGCCAACACATCAAGATCATC 1032
QY 963 GCGCAGCTGAGGAGCACTGGCCAGGGTGCCTCGG3CAGGCCCGTCCCCAGGCCACCC 1022
Db 1033 GCGCAGCTGAGGAGCACTGGCCAGGGTGCCTCGG3CAGGCCCGTCCCCAGGCCACCC 1092
Db 1023 CCGCCTGGCCACCCGGCTTACACCAACCCACCTAACAGCATCATCACAGATC 1082
Db 1093 CCCGCTGGCCACCCGGCTTACACCAACCCACCTAACAGCATCATCACAGATC 1152
QY 1083 TCTACCAACGAGGAGCTGAGGAGCACTGGCCAGGGTGCCTCGG3CAGGCCCGTCCCCAGGCCACCC 1142

Db	Qy	Sequence	Result
1153	TCTTACCAAGAGATCAGAGTGGACCCACTGCCCCACT	1212	RESULT 3
1143	ATGCCAATCTGCCATCTCCATCTCCATCGAACAGCCATGGAAAGAC	1202	AAL4255
1213	ATGCCAATCTGCCATCTCCATCTCCATCGAACAGCCATGGAAAGAC	1272	ID AAL4255.standard; DNA; 2288 BP.
1203	TGCCTGAGGCCCTGGAGATGCCAGCACACAGCTCATCTACTGTGAGCCAG	1262	XX
1273	TGCCTGAGGCCCTGGAGATGCCAGCACACAGCTCATCTACTGTGAGCCAG	1332	AC AAL4255;
1263	AACACCAACGCCATACAGGTGGTGGAGCACAGCTCATCTACTGTGAGCCAG	1322	XX
1333	AACACCAACGCCATACAGGTGGTGGAGCACAGCTCATCTACTGTGAGCCAG	1392	DE Human matrix-remodeling-associated nucleotide 11.
1323	GTCATCCAGAGAGCCTGATGCTGCTGTTAACTCTTCAGAACACTGGAGTCAG	1382	XX
Qy	GTCATCCAGAGAGCCTGATGCTGCTGTTAACTCTTCAGAACACTGGAGTCAG	1452	KW Human; ds; matrix-remodeling gene; extracellular matrix; gene;
Db	1393	1383 CLAGGGTTGSGRACATGTACGGCGATACTGGCTGGCCCTGGAGAACATTACTGGCTG 1442	KW matrix-remodeling-associated nucleotide; screening;
Qy	1453 CRAGGGTTGGAGAACATGTATGGCGAACTACTGGCTGGCCCTGGAGAACATTACTGGCTG 1512	KW matrix remodelling-associated disease; angiogenesis; arthritis;	
Db	1443 ACGAACCAAGGAACATACAAGAACTTCTCTGGACATGGCGCGCGAACAGTC	KW atherosclerosis; cancer; cardiomyopathy; diabetic necrosis; fibrosis;	
Qy	1503 TTTGCAGATAGCCGTTGCCGACTGAACTTAAGTGGCGCTG 1502	KW ulceration.	
Db	1573 TTGCAATATGCCACTTCGGCTGAGCTGAGGAGCTGGTGGCGCGAACAGTC	XX	
Qy	1513 ACGAACCAAGGAACATACAAGAACTTCTCTGGACATGGCGCGCGAACAGTC	OS Homo sapiens.	
Db	1563 GGGGCTACATGGCGATGGGGTACTCTTACATGGCGACACCGCGAACAGTC	XX	
Qy	1633 GGGGCTACATGGCGATGGGGTACTCTTACATGGCGACACCGCGAACAGTC	XX	
Db	1623 ACCTTGACAGAGATATGATGCTCTACAGGAAATGTGGCGACATACAGGAGGC	XX	
Qy	1693 ACCTTGACAGAGATATGATGCTCTACAGGAAATGTGGCGACATACAGGAGGC	XX	
Db	1683 TGTGTGTTATAAGCCCTGGCCACTCAACCTAACGGGCGTGGACCGGGGCCAT	XX	
Qy	1753 TGTGTGTTATAAGCCCTGGCCACTCAACCTAACGGGCGTGGACCGGGGCCAT	XX	
Db	1743 TACCGAAGGGTGTATGATGATCCACCGGACCTGGCGAGGTCTTACAGGAGTC	XX	
Qy	1803 CTCAGAAGGGTGTATGATGATCCACCGGACCTGGCGAGGTCTTACAGGAGTC	XX	
Db	1873 CTCAGAAGGGTGTATGATGATCCACCGGACCTGGCGAGGTCTTACAGGAGTC	XX	
Qy	1863 CCCTCTGACCTCTGGCATGCGAGGCCAACCTGGTCAAGTCAGCAC 1922	XX	
Db	1933 CCCTCTGACCTCTGGCATGCGAGGCCAACCTGGTCAAGTCAGCAC 1992	CC The invention comprises human nucleotide sequences which are co-expressed with matrix-remodeling genes. Matrix-remodeling is associated with the construction, destruction and reorganisation of extracellular matrix components. The matrix-remodeling-associated nucleotides of the invention are useful for screening for and purifying ligands that specifically bind to the nucleotides of the invention. The matrix-remodeling-associated nucleotides of the invention are also useful in the diagnosis, prognosis, prevention, treatment and evaluation of therapies for diseases associated with matrix remodelling (e.g. angiogenesis, arthritis, atherosclerosis, cancer; cardiomyopathy, diabetic necrosis, fibrosis and ulceration). The present DNA sequence represents a human matrix-remodeling-associated nucleotide of the invention.	
Qy	1923 AAAGAACACTCTCCACCGAGTCACTGTGAGCTGGCGACATGGTGT 1982	CC	
Db	1993 AAAGAACACTCTCCACCGAGTCACTGTGAGCTGGCGACATGGTGT 2052	CC	
Qy	1983 TTTCGAAAGTCACTGAGGAGTCACTGTGAGCTGGCGACATGGTGT 2042	CC	
Db	2053 TTCCGAAAGTCACTGAGGAGTCACTGTGAGCTGGCGACATGGTGT 2112	CC	
Qy	2043 TACTTTCTCACACAGACGCCCTCATCTCCAGACAGGAGACTACAGACA 2102	CC	
Db	2113 TACTTTCTCACACAGACGCCCTCATCTCCAGACAGGAGACTACAGACA 2172	SQ Sequence 2288 BP; 548 A; 689 C; 647 G; 404 T; 0 U; 0 Other;	
Qy	2103 CTCTTCTTAAATAATTAACTCTTACATAAACACACTGGAGTAAMAAA 2162	Query Match 98.8%; Score 2146.2; DB 6; Length 2288; Best Local Similarity 99.4%; Pred No. 0; Mismatches 0; Nucleotides 13; Inlays 0; Gaps 0; Matches 2154; Conservative 0; Nucleotides 13; Inlays 0; Gaps 0; Matches 2154; Conservative 0; Nucleotides 13; Inlays 0; Gaps 0;	
Db	2173 CTCTTCTTAAATAATTAACTCTTACATAAACACACTGGAGTAAMAAA 2232	Qy 3 ATATCAGGGCTGCTGGAGCGCTGAGGATGAACTGGCCCAAGCCCTGGACCTCTGGCGCTGCGT 62	
Qy	2163 AAAAAA 2169	Db 73 ATATCAGGGCTGCTGGAGCGCTGAGGATGAACTGGCCCAAGCCCTGGACCTCTGGCGT 132	
Qy	2233 ATATACA 2239	Qy 63 GCACTGGAGGGCGCTGGAGCTACTGTGAGGAGAAGGTGTGAGGAGCCCGCAGG 122	

Db	133	GCAGTGGCAGGGCTGACCTACTGTGAGGAAAGAAGGTGAGGAGCCCGAGG	192	Db	1213	ATGCCACTCTCACCAAGCTCCCATCTCCACCGACAGGCCCTGGGCCATGGAGAGAC	1272
Qy	123	ACCCCTGGCGCCCTGGCCAGGCTCTGGAGGACCTTGTGGAGGGAGAGCCAGG	182	Oy	1203	TGCTTGCGGCCCTGGAGATGGCCAGACACAGTCACATTACCTGGTGAAGCCGAG	1262
Db	193	ACCCCTGGCGCCCTGGAGGACCTGGCCAGGCTCTGGAGGAGCCCTGTGGAGGAGCCAGG	252	Db	1273	TGCTTGCGGCCCTGGAGATGGCCAGACACAGTCACATTACCTGGTGAAGCCGAG	1332
Qy	183	GAGGCCAGTGGAGGAGGGCTTGGAGGACCCGGCTGAGAACCTCAGGAAACCCCTGG	242	Oy	1263	AACCCACGGCTCATCAGGTTGGCGAGAGACAGACCCGGGCGCTGACC	1322
Db	253	GAGGCCAGTGGAGGAGGGCTTGGAGGACCCGGCTGAGAACCTCAGGAAACCCCTGG	312	Db	1333	AACACAAACGCCATGAGGTGGTGGGAGACAGACCCGGGCGCTGACC	1392
Qy	243	AGGCCATGGAGGAGGGCTTGGAGGACCCGGCTTGGAGGACCCGG	302	Oy	1323	GTCTCCAGAGACCCGGCTTGGAGGACCCGG	1382
Db	313	AGGCCATGGAGGAGGGCTTGGAGGACCCGGCTTGGAGGACCCGG	372	Db	1393	GTATCCAGAGACCCGGCTTGGAGGACCCGG	1452
Qy	303	AGCCAGCAGAGGGAGGGAGGGCTTGGAGGACCCGGCTTGGAGGACCCGG	362	Oy	1383	CAAGGTTGGAGACATTGAGGGAATACTGGCTGGCCCTGGAGAACATTACTGGTG	1442
Db	373	AGCCAGCAGAGGGAGGGAGGGCTTGGAGGACCCGGCTTGGAGGACCCGG	432	Db	1453	CAAGGTTGGAGACATTGAGGGAATACTGGCTGGCCCTGGAGAACATTACTGGTG	1512
Qy	363	GCAAGACCTGGAGGAGGGAGGGCTTGGAGGACCCGGCTTGGAGGACCCGG	422	Oy	1443	ACGRACCAAGGCACTACAAACTCTGGTGGACCATGAGGAGCTGGCTG	1502
Db	433	GCAAGACCTGGAGGAGGGAGGGCTTGGAGGACCCGGCTTGGAGGACCCGG	492	Db	1513	ACGRACCAAGGCACTACAAACTCTGGTGGACCATGAGGAGCTGGCTG	1572
Qy	423	GAGCTTGTGAGGCCAGGAGGACGTTGGAGGACTGTGGAGGCTGGAGAGAG	482	Oy	1503	TTCGAGATAACCCAGTTGGCTGGAGGACTTAACTGGCTGGAGAG	1562
Db	493	GGAGCTTGTGAGGCCAGGAGGACGTTGGAGGACTGTGGAGGCTGGAGAGAG	552	Db	1573	TTCGAGATAACCCAGTTGGCTGGAGGACTTAACTGGCTGGAGAG	1632
Qy	483	TTCATTACCTAACAGGTAAGCGGGCGGCGAGTCCTCAGGAACAGTCAC	542	Oy	1563	GGGGCTTACATGGCATGGGTGATCTTACATGCCACACGGCAAGGTCACC	1622
Db	553	TTCATTACCTAACAGGTAAGCGGGCGGCGAGTCCTCAGGAACAGTCAC	612	Db	1633	GGGGCTTACATGGCATGGGTGACTCTTACATGCCACACGGCAAGGTCACC	1692
Qy	543	TTCATTACCTAACAGGTAAGCGGGCGGCGAGTCCTCAGGAACAGTCAC	602	Oy	1623	ACCTGGAGAGATCATGATGCTACAGGAACTGGTGGACATGGGAGTGTG	1682
Db	613	TTCATTACCTAACAGGTAAGCGGGCGGCGAGTCCTCAGGAACAGTCAC	672	Db	1693	ACCTGGAGAGATCATGATGCTACAGGAACTGGTGGACATGGGAGTGTG	1752
Qy	603	TTCATTACCTAACAGGTAAGCGGGCGGCGAGTCCTCAGGAACAGTCAC	662	Oy	1683	TGGGGTTAACCCCTGGCCACTCCACCTAACGGGTGTTGGAGGGGACAT	1742
Db	673	TTCATTACCTAACAGGTAAGCGGGCGGCGAGTCCTCAGGAACAGTCAC	732	Db	1753	TGGGGTTAACCCCTGGCCACTCCACCTAACGGGTGTTGGAGGGGACAT	1812
Qy	663	AGCAGAGCCAGATGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	722	Oy	1743	TACCGGAGGCTTACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	1802
Db	733	AGCAGAGCCAGATGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	792	Db	1813	TACCGGAGGCTTACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	1872
Qy	723	AGCAGAGTGGAGCTGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	782	Oy	1803	CTCAGAAGCTTACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	1862
Db	793	AGCAGAGTGGAGCTGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	852	Db	1873	CTCAGAAGCTTACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	1932
Qy	783	TACATGAGCTCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	842	Oy	1863	CCTCTCTTACCTCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	1922
Db	853	TACATGAGCTCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	912	Db	1933	CCCTCTTACCTCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	1992
Qy	843	TCTGGAGACAGATCTTGAGAACAGAACAGAACAGAACAGAACAGAAC	902	Oy	1923	AAAGACAACTCTAACAGGTTCTGAGGTGAGGAGGAGGAGGAGGAGGAG	1982
Db	913	TCTGGAGACAGATCTTGAGAACAGAACAGAACAGAACAGAACAGAAC	972	Db	1993	AAAGACAACTCTAACAGGTTCTGAGGTGAGGAGGAGGAGGAGGAGGAG	2052
Qy	903	GACCTGGAGCAAGAACAGAACAGAACAGAACAGAACAGAACAGAAC	962	Oy	1983	TTCGAGTCACTGGAGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAG	2042
Db	973	GACCTGGAGCAAGAACAGAACAGAACAGAACAGAACAGAACAGAAC	1032	Db	2053	TTCGAGTCACTGGAGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAG	2112
Qy	963	GCGCAGTGGAGGAGACTGCAGAGGTGCTGGCCCTGGCCAGGAGGCTGG	1022	Oy	2043	TACCTCTTACACAGGAGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAG	2102
Db	1033	GCGCAGTGGAGGAGACTGCAGAGGTGCTGGCCCTGGCCAGGAGGCTGG	1092	Db	2113	TACCTCTTACACAGGAGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAG	2172
Qy	1023	CGCGCTGGCCGGGGGGTACCAACACAGAACACAGAACACAGAACAC	1082	Oy	2103	TCTCTCTTAAATTAATGCTTCAAAACACAGAACACAGAACACAGAAC	2162
Db	1093	CGCGCTGGCCGGGGGGTACCAACACAGAACACAGAACACAGAACAC	1152	Db	2173	TCTCTCTTAAATTAATGCTTCAAAACACAGAACACAGAACACAGAAC	2232
Qy	1083	TCTTACCAACGAGATCCAGAGTGGAGCAGAACGGTGTGCAACCCCCCTG	1142	Oy	2163	AAAAAA 2169	
Db	1153	TCTTACCAACGAGATCCAGAGTGGAGCAGAACGGTGTGCAACCCCCCTG	1212	Db	2233	ATATACA 2239	
Qy	1143	ATGCCACTCTCACCAAGCTCCATCTCCACCGACAGGCCCTGGGCCATGGAGAGAC	1202				

ID AAI72856 standard; cDNA; 2154 BP.
 XX
 AC AAI72856;
 XX
 DT 12-AUG-2002 (first entry)
 XX
 DB cDNA clone AR3, ATCC 207063.
 XX
 KW Gene; angiopoietin-like protein 2; AR2; angiopoietin-like protein 3; AR3;
 KW apple crisp protein; APPLE; cocoa crisp protein; COCO;
 KW signal sequence cloning; secretory leader motif; angiogenesis;
 KW wound healing; transplantation; ss.
 XX
 OS Homo sapiens.
 XX
 FH key Location/Qualifiers
 FT 358. .1839 /*tag= a
 FT /product= "Angiopoietin-like protein-3"
 XX
 PN WO20059938-A1.
 XX
 FT 12-OCT-2000.
 XX
 PR 31-MAR-2000; 2000WO-US008932.
 XX
 PR 01-APR-1999; 99US-012636P.
 XX
 PA 29-MAR-2000; 2000US-00538361.
 (GEMY) GENETICS INST INC.
 XX
 PI Racine-Collins LA, Lavallie ER;
 XX
 PT New angiopoietin-like proteins 2 and 3, apple crisp and cocoa crisp
 PT proteins and polymucotides, useful in treating e.g. autoimmune
 PT diseases, cancer, or central and peripheral nervous system disorders and
 PT neuropathies.
 XX
 PS Claim 24; Page 70-71; 84PP; English.
 CC The sequences given in AAI72855-58 encode angiopoietin-like protein 2
 CC (AR2), angiopoietin-like 3 protein (AR3), apple crisp protein (APPLE), or
 CC cocoa crisp protein (COCO), respectively. These sequences were isolated
 CC by indirect cloning techniques, e.g. signal sequence cloning, which
 isolates DNA based on the presence of well known secretory leader motifs.
 CC AR2 and AR3 promote angiogenesis and may therefore be used in wound
 CC healing and transplantation
 XX
 SQ Sequence 2154 BP; 528 A; 657 C; 607 G; 362 T; 0 U; 0 Other;
 Query Match 98.2%; Score 2134.2; DB 3; Length 2154;
 Best Local Similarity 99.9%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 2136; Conservative
 QY 30 GATGAACCCAAAGCCCTGGACTGCCGAGCGTGGACTGGCACGGCTGACCTG 89
 Db 16 GATGAGCCCAAAGCCCTGGACTGCCGAGCGTGGACTGGCACGGCTGACCTG 75
 QY 90 TGGGGAAAGAGGTGTGGAGGAGCCCGAGAACCTTGCCAGCTTGCCCCAGCT 149
 Db 76 TGAGGGAAAGAGGTGTGGAGGAGCCCGAGAACCTTGCCAGCTTGCCAGCT 135
 QY 150 CTGGCGGGGCCCTGTGGAGGAGAACCCAGTGGAGGAGGAGCTGCTGGC 209
 Db 136 CTGGCGGGGCCCTGTGGAGGAGAACCCAGTGGAGGAGGAGCTGCTGGC 195
 QY 210 ACCCACCGGCTGCAACTGAGAACCCCTCCAGAGGCATGAGACAGCTGCCCTGAC 269
 Db 196 AGCACCGGCCTGCAACTGAGAACCCCTCCAGAGGCATGAGACAGCTGCCCTGAC 255
 QY 270 GTTAACCTTCAGGAACGGGAGCTGAGGAGCATGAGGGTTGGAGACATGACGGAA 1409

OY 256 GGCGAGGGTGAAGGATGTGAGGAGCCGCCGGAGCCAGGAGGGCTTCA 315
 Db 330 TAGATTCTTACAAAGATAACACATTGCAAGAGCATGAGGCCATGCGGTG 389
 Db 316 TAGATTCTTACAAAGATAACACATTGCAAGGAGGACATGAGGCCATGCGGTG 375
 QY 390 ACATGCTGGTGGCTGGACTGCGGGCATGGACCTGGACCTGTTGAGGCCAGGAGGT 449
 Db 376 ACATGCTGGTGGCTGGACTGCGGGCATGGACCTGTTGAGGCCAGGAGGT 435
 Db 450 TTGAGGGACTGGAGGGCTGCCAGAGACTCTTACAAAGGTACAGGG 509
 Db 436 TTGAGGGACTGGAGGGCTGCCAGAGACTCTTACAAAGGTACAGGG 495
 QY 510 GCGGGCAGTCCCAGGACAGTCACCTCCAAAGGACCTACACTTC 569
 Db 496 GCGGGCAGTCCCAGGACAGTCACCTCCAAAGGACCTACACTTC 555
 QY 570 GGTCGCATCTGCGTCACTCCAAAGGACCTGAGGTGTTCTGAGAAGGGTCAAG 629
 Db 556 GGTCGCATCTGCGTCACTCCAAAGGACCTACACTTC 615
 QY 630 CAAGAGCTGAGGTGCTAACATGACTGCTCAAGGAGGGAGATGAGTC 689
 Db 616 CAGGAGCTGAGGTGCTAACATGACTGCTCAAGGAGGGAGATGAGTC 675
 QY 690 CAGGAGCTGAGGTGACGGGGATTGGAGGGAGGTGCTGGAGGAG 749
 Db 676 CAAGAGCTGAGGTGACGGGGATTGGAGGGAGGTGCTGGAGGAG 735
 QY 750 AGCCGCAACATGACTCCGGGTACCGCTTACATGACCTCTGCCACAGATTC 809
 Db 735 AGCCGCAACATGACTCCGGGTACCGCTTACATGACCTCTGCCACAGATTC 795
 QY 810 CGCAZAGGGACACGCGCTGGACTTCCAGCTGAGGAGGTCTGACCCAGACA 869
 Db 796 CGCAZAGGGACACGCGCTGGACTTCCAGCTGAGGAGGTCTGACCCAGACA 855
 QY 870 GCGCACATGCTGAGGTGACGGGGATTGGAGGGAGGTGCTGGAGGAG 929
 Db 856 GCCACATGCTGAGGTGACGGGGATTGGAGGGAGGTGCTGGAGGAG 915
 QY 930 GCGCACATGCTGAGGTGACGGGGATTGGAGGGAGGTGCTGGAGGAG 989
 Db 916 GCGCACATGCTGAGGTGACGGGGATTGGAGGGAGGTGCTGGAGGAG 975
 QY 990 GTGCCCTGGCCAGGCGTCCCCAACCCACCCCGCTGCCGCCGGCTTCAAA 1049
 Db 976 GTGCCCTGGCCAGGCGTCCCCAACCCCGCTGCCGCCGGCTTCAAA 1035
 QY 1050 CCAACCACTTACACCGCATCAACAGATCTTACCAAGAGATCCAGGTGACCG 1109
 Db 1036 CCACCACTTACACCGCATCAACAGATCTTACCAAGAGATCCAGGTGACCG 1095
 QY 1110 AACCTGAGGTGTGGCCACCCCTCTGCCACTATGCCACCTTACACGGCTTCACT 1169
 Db 1096 AACCTGAGGTGTGGCCACCCCTCTGCCACTATGCCACCTTACACGGCTTCACT 1155
 QY 1170 TCCACCGACAASCGCTGGCCATGGAGAGTGTGGCCCTGGAGGATGCCAC 1229
 Db 1156 TCCACCGACAAGGGCTGGCCATGGAGAGTGTGGCCCTGGAGGATGCCAC 1215
 QY 1230 GACACCACTCCATCTGTGGAGGAGAACCCACGGCTCATCAGGTTGG 1289
 Db 1216 GACACCACTCCATCTGTGGAGGAGAACCCACGGCTCATCAGGTTGG 1275
 QY 1290 TGGACACAGAGAACCCACGGCTGGAGGAGCATGAGGGCTGATGGCT 1349
 Db 1275 TGGACACAGAGAACCCACGGCTGGAGGAGCATGAGGGCTGATGGCT 1335

Db	1336	TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	1395	XX	W09915653-A2.
Qy	1410	TCTGGCTGGCTGGAGAACATTACTGGTGAGCACAGGCACTAACTCTG	1469	PN	01-APR-1999.
Db	1396	TACTGGCTGGCTGGAGAACATTACTGGTGAGCACAGGCACTAACTCTG	1455	XX	PD
Qy	1470	TCTGGCTGGCTGGAGAACATTACTGGTGAGCACAGGCACTAACTCTG	1529	XX	14-SEP-1998;
Db	1456	TCTGGCTGGCTGGAGAACATTACTGGTGAGCACAGGCACTAACTCTG	1515	PR	98WO-US019093.
Qy	1530	TCTGGCTGGCTGGAGAACATTACTGGTGAGCACAGGCACTAACTCTG	1589	PR	19-SEP-1997;
Db	1516	GAACTGAGAGCAGATAATAGCTGGGGCTACCCACTTGGGCGCT	1575	PR	97US-00333821.
Qy	1590	TCCTTACATGGACAACGGCAAGAGTCAACACCCCTGGACAGAGATACCG	1649	XX	29-OCT-1997;
Db	1576	TCCTTACATGGACAACGGCAAGAGTCAACACCCCTGGACAGAGATACCG	1635	XX	97US-00960507.
Qy	1650	ACGGAAACTGTGCCACTACCAAGAAGGGCTGGTATAACGCCIGGCCACTC	1709	PA	(GETH) GENENTECH INC.
Db	1636	ACGGAAACTGTGCCACTACCAAGAAGGGCTGGTATAACGCCIGGCCACTC	1695	PA	Godowski PJ, Gurney AL, Hillan K, Botstein D, Goddard A, Roy M,
Qy	1710	AACCTCAAGGGCTGGTACGGGGGGCATACGGACCGCTTACCGACAGGTC	1769	PI	Ferrara N, Tumas D, Schwall R,
Db	1696	AACCTCAAGGGCTGGTACGGGGGGCATACGGACCGCTTACCGACAGGTC	1755	XX	DR
Qy	1770	TACTGGCTGAGTCCGAGGGCTTACACTGAGAAGTGTGATGATGATCGA	1829	XX	WPI; 1999-263480/22.
Db	1756	TACTGGCTGAGTCCGAGGGCTTACACTGAGAAGTGTGATGATGATCGA	1815	DR	P-PSDB; AAY05396.
Qy	1830	CCGACCCACACTCCACTAAGCCGCTCCCTCTGACTCTCGGCCATGCC	1889	XX	New isolated TIE ligand homologs for, e.g. developing products for
Db	1816	CGAACCCACACTCCACTAAGCCGCTCCCTCTGACTCTCGGCCATGCC	1875	PR	PT treatment of tumors.
Qy	1890	AGGAGCCACCTCTGGTACCGCTGGCCACAGGCAAAAGAACACTCTCACAGTCATCC	1949	XX	Claim 3; Fig 2; 132pp; English.
Db	1876	AGGAGCCACCTCTGGTACCGCTGGCCACAGGCAAAAGAACACTCTCACAGTCATCC	1935	XX	CC
Qy	1950	TAAGGCTGGGAGGACGGGATGCTGATTCTTCCGAAGTCACTGCAGGGATGATG	2009	CC	This sequence encodes the human tyrosine kinase containing Ig and EGF homology domains (TIE) ligand of the invention, designated NL1. The TIE receptors are receptor tyrosine kinases which are expressed in vascular endothelial cells and early haemopoietic cells. The TIE receptors are believed to be actively involved in angiogenesis, and may play a role in haemopoiesis as well. The TIE ligand homologs can promote the survival and/or growth and/or differentiation of TIE receptor expressing cells. They can be used for promoting neovascularisation in wound healing and for promoting angiogenic processes, such as for inducing collateral vasculisation in an ischaemic heart or limb, or for promoting bone development and/or maturation and/or growth in a patient or muscle growth and development. The TIE ligand homologs and antibodies can inhibit the growth of endothelial cells and induce apoptosis of cells, particularly tumour cells. They can inhibit vasculogenesis, particularly the vascularisation of tumour cells. The antibodies can also inhibit vascularisation of a cell in which a gene encoding an NL1, NL5, NL8 or CC4 polypeptide is amplified. The products can also be used for CC detection, diagnosis, drug screening and production of transgenic animals
Db	1936	TAAGGCTGGGAGGACGGGATGCTGATTCTTCCGAAGTCACTGCAGGGATG	1995	XX	CC
Qy	2010	GAATGATCATACTGGTTCTGCCCTATTTCTCACCCACGCCCT	2069	XX	CC
Db	1996	GAATGATCATACTGGTTCTGCCCTATTTCTCACCCACGCCCT	2055	XX	CC
Qy	2070	CATGTCCTCAGGACAGGACAGGACTACAGAACTCTCTTAATTAATTAAGCTC	2129	XX	CC
Db	2056	CATGTCCTCAGGACAGGACAGGACTACAGAACTCTCTTAATTAAGCTC	2115	XX	CC
Qy	2130	ACATATAAAACACAGCAAGTAAATAAAATAAA 2168	211	DB	3 AAATGAGGCTGGCTGGAGGCTGAGCTTACGTGAGGGAAAGGTTGAGCAGGCCGG
Db	2116	ACATATAAAACACAGCAAGTAAATAAAATAAA 2154	211	DB	151 AACATGGCTGGAGGCTGAGCTTACGTGAGGGAAAGGTTGAGCAGGCCGG
RESULT 5	AAX36341	TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Qy	63 GCATGAGGCTGGCTGGAGGCTGAGCTTACGTGAGGGAAAGGTTGAGCAGGCCGG
ID	AAX36341	TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Db	210 AACATGGCTGGAGGCTGAGCTTACGTGAGGGAAAGGTTGAGCAGGCCGG
AC	AAX36341;	TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Qy	211 GCATGGAGGCTGGAGGCTGAGCTTACGTGAGGGAAAGGTTGAGCAGGCCGG
DT	01-JUN-1999 (first entry)	TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Db	270 AACATGGCTGGAGGCTGAGCTTACGTGAGGGAAAGGTTGAGCAGGCCGG
XX	Human TIE ligand NL1 coding sequence.	TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Qy	123 ACCCTG3CAGGCTGCCCTCTGGCGAGGCTCTGGAGCAGGCCGG
DE		TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Db	271 ACCCTG3CAGGCTGCCCTCTGGCGAGGCTCTGGAGCAGGCCGG
XX		TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Qy	183 GAGCCAGTCAGGAGGGCTGGCGCCACCGCCCTGCACTCAGGAACCCCTCAG
AC		TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Db	242 3.1 GAGCCAGTCAGGAGGGCTGGCGCCACCGCCCTGCACTCAGGAACCCCTCAG
XX		TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Qy	3.91 AGGCATGAGGCTGGCGCCACCGCCCTGCACTCAGGAACCCCTCAG
XX		TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Db	450 3.03 AGCCAGGAGGAGGAGGCTTCATAGATCTTACAGAATACACCAATT
XX		TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Qy	362 4.51 AGCCAGGAGGAGGAGGCTTCATAGATCTTACAGAATACACCAATT
OS		TTTAACTCTTCAGAACTGGGAGCTACAGCAGGTGGAACATGAGGGA	182	Db	510 3.63 GCAAGAGCATGAGGCCCCCTGGCTGGAGCATGCTGGCTGGCCATG

Db	511	GCAAGGACCATGAGGCACCTGTGCF-GACATCTCTGGTGTGACATGGAGACTGGCCCGCAAGTC	570	Db	1591	ACGACACAGGAACTAACA TCTCTGTGACATGGAGACTGGCCCGCAAGTC	1650
Db	423	GGAGCTGTGCA GGGCCAGGAGAACGGTTTGGGGACTCTAGAGGGCTGGCAAGAGAG	482	QY	1503	TTCAGAATA CCCCAGTTCCGCCTTGACCTGTGAGGGAGTATTATACTGCGCTG	1562
Db	571	GGAGCTGTGCA GGGCCAGGAGAACGGTTTGGGGACTCTAGAGGGCTGGCAAGAGAG	630	Db	1651	TTTCAGAATA CCCCAGTTCCGCCTTGACCTGTGAGGGAGTATTATACTGCGCTG	1710
QY	483	TTCATTTACCTAAACAGGTACAGCAGGGGGGGGAGSTCCAGGACAGTGCCACCTACAC	542	QY	1563	GGGGCTTACCATGCGAATGCCGGTGTACCTTCTACATGGCACACCGCAAGAGTC	1622
Db	631	TTCATTTACCTAAACAGGTACAGCAGGGGGGGGAGSTCCAGGACAGTGCCACCTACAC	690	Db	1711	GGGGCTTACCATGCGAATGCCGGTGTACCTTCTACATGGCACACCGCAAGAGTC	1770
QY	543	TTCATTTGCCCCAGCAGGGGGTCA CGGGTSCATCTGCGTCACTCCAGGAGCTGTG	602	QY	1623	ACCTGACAGATCTGTGCTTACAGAGAACTGTGCCACTTACAGAGAGGG	1682
Db	691	TTCATTTGCCCCAGCAGGGGGTCA CGGGTSCATCTGCGTCACTCCAGGAGCTGTG	750	Db	1771	ACCTGACAGATCTGTGCTTACAGAGAACTGTGCCACTTACAGAGAGGG	1830
QY	603	GGCTTCTGGAGAACCGAGTCA TAAGCAGGAGCTAGCTGAGTGTACACATGAGCTG	662	QY	1683	TGGGGATAACCTTGTCCACTCAACCTAACCTAACGGGCTGTGACCGGGSCAT	1742
Db	751	GGCTTCTGGAGAACCGAGTCA TAAGCAGGAGCTAGCTGAGTGTACACATGAGCTG	810	Db	1831	TGGGGATAACCTTGTCCACTCAACCTAACCTAACGGGCTGTGACCGGGCAT	1890
QY	663	AAGCAGAAGGGCAGATGGAGGCTGAGGCTGAGGCTGAGGCTGAGTGTACAGTGTG	722	QY	1743	TACGGAGCCATCTGAGGCTGAGGCTGAGTGTACAGTGTG	1802
Db	811	AAGCAGAAGGGCAGATGGAGGCTGAGGCTGAGGCTGAGGCTGAGTGTACAGTGTG	870	Db	1891	TACGGAGCCATCTGAGGCTGAGGCTGAGTGTACAGTGTG	1950
QY	723	AGGGAGGTGAGCTGCTGGCAGGAGGCCAAATGAACTCGGGGACGGAGTC	782	QY	1803	CTCAAGAAGTGGTGTATGATGCCAGGAAACCCACACTTCAACGGGTGTG	1862
Db	871	AGGGAGGTGAGCTGCTGGCAGGAGGCCAAATGAACTCGGGGACGGAGTC	930	Db	1951	CTCAGAAGTGGTGTATGATGCCAGGAAACCCACACTTCAACGGGTGTG	2010
QY	783	TACATGCGCTCTGCAAGGAGCATCGAGGAGCAAGGGGAAACGGGTGGAGCTC	842	QY	1863	CCCTCTCTACCTCTGCGCCATGCGAGGACGGTACTGGGTGAGTGGAGG	1922
Db	931	TACATGCGCTCTGCAAGGAGCATCGAGGAGCAAGGGGAAACGGGTGGAGCTC	990	Db	2011	CCCTCTGACCTCTGCGCCATGCGAGGAGCCACACTTCAACGGGTGTG	2070
QY	843	CTGAGAGAACGATCTCGAACGAGACAGCAGCAGCACATGACTCGGGGAC	902	QY	1923	AAGAACAACTCTCACAGTCACTGGAGGTGAGGACGGCAACTTCAC	1982
Db	991	CTGGAGAACAGGATCTGAAACGACAGCCAGCTGCACTGGCAGAAG	1050	Db	2071	AAAGAACAACTCTCACAGTCACTGGAGGTGAGGACGGATGCTG	2130
QY	903	GA CTCAGGACAACTGAGGACCTGCGCAACTGGCCAACTAATGAGATCATC	962	QY	1983	TTCCGAACTCTGCGGGTGTGACTGATGACCTTCCTCAAGCCACCTCC	2042
Db	1051	GA CTCAGGACAACTGAGGACCTGCGCAACTGGCCAACTAATGAGATCATC	1110	Db	2131	TTTCGAGTCACTGCAAGGGATGATGACCTGATGATGATGATGATG	2190
QY	963	GGCAGACTGAGGAGCTCCAGGGTGCCTCGCCAGGCTCCAGGACACCAC	1022	QY	2043	TACTTCTCACACCAAGACGGCCTATGTCCTGGAGGACGGACTACAGCAA	2102
Db	1111	GGCAGACTGAGGAGCTCCAGGGTGCCTCGCCAGGCTCCAGGACACCAC	1170	Db	2191	TACTTCTCACACCAAGACGGCCTATGTCCTGGAGGACGGACTACAGCAA	2250
QY	1023	CCGGCTCCCCGCCCCGGGCTTACCAACCCACCTACAAACCGCATCACACC	1082	QY	2103	CTCTTCTTAAATAAATTAAGTCTCTCACATAAAACA	2141
Db	1171	CCGGCTCCCCGCCCCGGGCTTACCAACCCACCTACAAACCGCATCACACC	1230	Db	2251	CTCTTCTTAAATAAATTAAGTCTCTCACATAAAACA	2289
QY	1083	TCTTACCAAGGAGATCCAGTGGACCAACCTGGCTGCAACCCCTGTGCCACT	1142	RESULT 6			
Db	1231	TCTTACCAAGGAGATCCAGTGGACCAACCTGGCTGCAACCCCTGTGCCACT	1290	ID	AAC86961		
QY	1143	ATGCCCACTCTCACCGCCATCTCACCGACAGCAGCTGAGGAGAC	1202	ID	AAC86961	standard; cDNA; 2290 BP.	
Db	1291	ATGCCCACTCTCACCGCCATCTCACCGACAGCAGCTGAGGAGAC	1350	XX			
QY	1233	TGCTGCGAGCCCTGGAGGATGGCAGAACAGCTCACCTGGAGGGAG	1262	AC	AAC86961;		
Db	1311	TGCTGCGAGCCCTGGAGGATGGCAGAACAGCTCACCTGGAGGGAG	1410	XX			
QY	1263	AACCCCAACGCCCTGGAGGATGGCAGAACAGCTCACCTGGAGGGAG	1322	DT	20-APR-2001 (first entry)		
Db	1411	AACCCCAACGCCCTGGAGGATGGCAGAACAGCTCACCTGGAGGGAG	1470	DB	Nucleotide sequence of human polypeptide PRO196.		
QY	1323	GTATCCAGAGAACGGCTGGATGGCTGTTAATCTCTCAGGACTGGAGA	1382	XX			
Db	1471	GTATCCAGAGAACGGCTGGATGGCTGTTAATCTCTCAGGACTGGAGA	1530	KW	Human; secreted protein; transmembrane protein; PRO196; PRO444; PRO183; PRO185; PRO210; PRO215; PRO217; PRO212; PRO283; PRO365; PRO361; PRO108; PRO183; PRO212; PRO419; PRO399; PRO710; PRO248; PRO353; PRO1318;		
QY	1383	CAAGGGTTGGGACATGGACCGGAAATCTGGCTGGAGACATTACTGGCT	1442	KW	PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4316; PRO465; PRO941; PRO0096; PRO6003; PRO6004; PRO550; PRO2630; PRO6309; cell death; genetic disorder; transgenic animal; gene therapy;		
Db	1531	CAAGGGTTGGGACATGGACCGGAAATCTGGCTGGAGACATTACTGGCT	1590	KW			
QY	1443	ACGACACAGGAACTAACA TCTCTGTGACATGGAGACTGGCCCGCAAGTC	1502	OS	Homo sapiens.		
Db			XX	FH	location/Qualifiers		
			XX	Key			
			XX	CDS			
			XX	/*tag=	a		
			XX	PT	520..2001		
			XX	PT	sig_peptide		
			XX	PT	/*tag= b		

PN	WO200707037-A2.
XX	
XX	21-DEC-2000.
PF	22-MAY-2000; 2000WO-US014042.
XX	
PR	15-JUN-1999; 99US-013965P.
PR	20-JUL-1999; 99US-014507P.
PR	26-JUL-1999; 99US-014569P.
PR	17-AUG-1999; 99US-014939P.
PR	01-SEP-1999; 99WO-US0202111.
PR	08-SEP-1999; 99WO-US02020594.
PR	15-SEP-1999; 99WO-US021090.
PR	15-NOV-1999; 99WO-US021547.
PR	30-NOV-1999; 99WO-US028313.
PR	01-DEC-1999; 99WO-US028301.
PR	02-DEC-1999; 99WO-US028565.
PR	07-DEC-1999; 99TS-016949P.
PR	05-JAN-2000; 2000WO-US000219.
PR	18-FEB-2000; 2000WO-US004341.
PR	19-FEB-2000; 2000WO-US004342.
PR	22-FEB-2000; 2000WO-US004414.
PR	01-MAR-2000; 2000WO-US005601.
PR	02-MAR-2000; 2000WO-US005841.
PR	20-MAR-2000; 2000WO-US007377.
PR	30-MAR-2000; 2000WO-US008439.
PR	15-MAY-2000; 2000WO-US013358.
PR	17-MAY-2000; 2000WO-US013705.
XX	
PA	(EBTH) GENENTECH INC.
PT	Ashkenazi AJ, Baker KB, Botstein DA, Destroyer L, Eaton DL, Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A; Gottowski PJ, Gurney AE, KJavlin IJ, Mather JP, Napier MA, Pan J; Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM; Wood WI, Zhang Z;
DR	WPI; 2001-050901/06.
DR	P-DSDB; AAB31179.
XX	
PT	Isolated nucleic acid molecule encoding a PRO polypeptide which is a transmembrane polypeptide is useful for gene therapy and identification of related polypeptides.
PS	Claim 2; Fig 1; 244pp; English.
XX	
CC	The present sequence encodes a human secreted and transmembrane polypeptide. The specification describes human polypeptides, designated CC polypeptide. The specific sequence encodes human secreted and transmembrane polypeptide, designated PRO196, PRO44, PRO183, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288, PRO65, PRO1303, PRO1308, PRO183, PRO187, PRO419, PRO499, PRO710, PRO248, PRO353, PRO1601, PRO940, PRO533, PRO301, PRO87, PRO337, PRO411, PRO435, PRO246, PRO65, PRO941, PRO1096, PRO6003, PRO004, PRO30, PRO260 and PRO609. The biological activity of cells can be modulated with agents that bind to these polypeptides, resulting in the death of the cells. The polynucleotides encoding these polypeptides are useful in the recombinant production of the polypeptides, as a hybridisation probe to screen libraries to isolate homologous sequences, or to map the gene. They may also be used for analysing genetic disorders, and to produce transgenic animals which are useful for the development and screening of therapeutically useful reagents. The polynucleotides can also be used in gene therapy e.g. to replace a defective gene
CC	Sequence 2290 BP; 537 A; 692 C; 668 G; 393 T; 0 U; 0 Other;
CC	XX
Query	Match, 99.8%; Pred. No. 0; Matches 2135; Conservative 0; Mismatches 4; Index 0; Gaps 0;
QY	3 AAATGAGGCTCTGGCGAGCAGCTTGGAGATAACCCAAAGCCCTGGACTCTGGCGCTG 62
Dy	151 AAATGAGGCTCTGGCGAGCAGCTTGGAGATAACCCAAAGCCCTGGACTCTGGCGCTG 1142
Db	1083 TCTTACCAACGAGTCAGAGTGACAGAACCTGAGGTGCTGCCACTCTGCCACT 1231
Db	TCTTACCAACGAGTCAGAGTGACAGAACCTGAGGTGCTGCCACTCTGCCACT 1230
QY	'903 GACCTGGAGGCAAGTACCTGGCGACCTGCGGCCACACCAATCAGAGATCATC 952
QY	1051 GACCTGGAGGCAAGAATCAGACCTGGCGACACTGGGCCACACCAATCAGAGATCATC 1110
Db	963 GCGGAGCTGGAGGACACTCCAGAGGTTGGCTGGCGAGCCGCTGCCACCC 1022
Db	1111 GGGAGCTGGAGGACACTCCAGAGGTTGGCTGGCGAGCCGCTGCCACCC 1170
Db	1023 CCCGTTGGCCGCCCCGGGTTTACACCCACCTAACCCGATCATCACAGATC 1082
Db	1171 CGCGTGGCCGCCCCGGGTTTACACCCACCTAACCCGATCATCACAGATC 1230

QY	963	GGCGAGCTTGAGGAGCACTGGCAGAGGGTGCCTCGCCAGGCCGTCCCCAGGCCACC	1022	2043 TACTTCCTCACACAGACAGCCCTATGTCAGACAGACAGACAGACAGACAA	2102
Db	1111	GCGCAGCTTGAGGAGCACTGGCAGAGGGTGCCTCGCCAGGCCGTCCCCAGGCCACC	1170	2191 TACTTCCTCACACAGACAGCCCTATGTCAGACAGACAGACAA	2250
QY	1023	CCCGCTGGCCGCCCGGTTACCAACCAACCACTACACCGCATCATCACAGATC	1082	2103 CTCTTCTTAATAATTAAGTCTCATATAAACCA	2141
Db	1171	CCGCTGGCCGCCCGGTTACCAACCAACCACTACACCGCATCATCACAGATC	1230	2251 CTCTTCTTAATAATTAAGTCTCATATAAACCA	2289
QY	1083	TGTACACAGGATCCAGAGGACCAACTGAAAGGTGCTGGCCACCCCTCTGCCACT	1142		
Db	1231	TGTACACAGGATCCAGAGGACCAACTGAAAGGTGCTGGCCACCCCTCTGCCACT	1290		
QY	1143	ATGCCCACTCTTACCAAGCTTACGAGATGACCAACTGAAAGGTGCTGGCCACT	1202		
Db	1291	ATGCCCACTCTTACCAAGCTTACGAGATGACCAACTGAAAGGTGCTGGCCACT	1350		
QY	1203	TGCTTGAGGAGCTGGAGATGGCAAGCAACCCGTCATGGCCAGAGGAG	1262		
Db	1351	TGCTTGAGGAGCTGGAGATGGCAAGCAACCCGTCATGGCCAGAGGAG	1410		
QY	1263	AACACCAACCCCTCATGCAAGTGAGGAGGCCACAGACAGACAGACAGAC	1322		
Db	1411	AACACCAACCCCTCATGCAAGTGAGGAGGCCACAGACAGACAGAC	1470		
QY	1323	GTCATCCAGAACGGCTGGAGAGCTGGTAACTCTTCAAGAAGCTGGAGA	1382		
Db	1471	GTCATCCAGAACGGCTGGAGAGCTGGTAACTCTTCAAGAAGCTGGAGA	1530		
QY	1383	CHAGGTTGCGAACCTGGAGATACTGGCTGGCTGGAGACATTACTGGTG	1442		
Db	1531	CHAGGTTGCGAACCTGGAGATACTGGCTGGCTGGAGACATTACTGGTG	1590		
QY	1443	AGGAACCAAGGAACTACAACACTCTGGTACCATGGAGCTGGCCAACTC	1502		
Db	1591	AGGAACCAAGGAACTACAACACTCTGGTACCATGGAGCTGGCCAACTC	1650		
QY	1503	TGTCAGAAATGGCAACTTTCGGCTGAAACTGAGAGCGGTATATAAGCTGGCTG	1562		
Db	1651	TGTCAGAAATGGCAACTTTCGGCTGAAACTGAGAGCGGTATATAAGCTGGCTG	1710		
QY	1563	GGGGCTTACCTGGCATGGCTGGGGTACTGGCTGGAGACATTACTGGTG	1622		
Db	1711	GGGGCTTACCTGGCATGGCTGGGGTACTGGCTGGAGACATTACTGGTG	1770		
QY	1623	ACCTGCAAAAGATATGGCAACTTACACAGAACTGGCCACTACCAAGGGG	1682		
Db	1771	ACCTGCAAAAGATATGGCAACTTACACAGAACTGGCCACTACCAAGGGG	1830		
QY	1683	TGGGGTATAAGCTGGCAACTTACACAGAACTGGCCACTACCAAGGGG	1742		
Db	1831	TGGGGTATAAGCTGGCAACTTACACAGAACTGGCCACTACCAAGGGG	1890		
QY	1743	TACCGGAGCCCTACCAAGGAGCTACTGGCTGAGTCGGAGAGGCTACTCA	1802		
Db	1891	TACCGGAGCCCTACCAAGGAGCTACTGGCTGAGTCGGAGAGGCTACTCA	1950		
QY	1803	CTCAAGAAAGTGTGTATGATGATGATGATGATGATGATGATGATGATG	1862		
Db	1951	CTCAAGAAAGTGTGTATGATGATGATGATGATGATGATGATGATGATG	2010		
QY	1863	CCCTCCCTGACTCTCTGGCTGTGAGGACCCACCTGTGAGGACCCACCTG	1922		
Db	2011	CCCTCCCTGACTCTCTGGCTGTGAGGACCCACCTGTGAGGACCCACCTG	2070		
QY	1923	AAAGAACACTCTCAGGAGCTATCTGGCTGGAGGAGCTGGGATCTGT	1982		
Db	2071	AAAGAACACTCTCAGGAGCTATCTGGCTGGAGGAGCTGGGATCTGT	2130		
QY	1983	TTTCCGAGTCACTGAGGAGCTGGAACTGATGATGATGATGATGATG	2042		
Db	2131	TTTCCGAGTCACTGAGGAGCTGGAACTGATGATGATGATGATGATG	2190		

Query Match 98.1%; Score 2132.6; DB 6; Length 2290;
 Best Local Similarity 99.8%; Pred. No. 0; Mismatches 4; Indels 0; Gaps 0;
 Matches 2135; Conservative 0; Sequence 2290 BP; 537 A; 692 C; 668 G; 393 T; 0 U; 0 Other;

XX

Claim 12; Fig 2; 59pp; English.

XX

The invention relates to an isolated antibody which specifically binds to a mammalian NTL TIE (tyrosine kinase containing Ig and EGF homology domains) ligand polypeptide which is capable of inducing vascularisation. The isolated antibody may be used in immunoassays to measure the amount of a TIE ligand in a biological sample. Additionally, the antibody may be used for the delivery of cytotoxic molecules, e.g. radioisotopes or toxins, or therapeutic agents to cells expressing a corresponding TIE receptor. The therapeutic agents may, for example, be other TIE ligands, including the TIE-2 ligand, members of the vascular endothelial growth factor (VEGF) family, or known anti-tumour agent, and agents known to be associated with muscle growth or development, or bone development, maturation, or growth. Anti-TIE ligand antibodies are also suitable as diagnostic agents, to detect disease states associated with the expression of a TIE (e.g. TIE-2) receptor. These detectably labelled antibody agonists of a TIE receptor can be used for imaging the presence of angiogenesis. The present sequence is human TIE ligand NTL DNA.

QY 2043 TACTTCCTCACACAGACAGCCCTATGTCAGACAGACAGACAGACAA 2102
 Db 2191 TACTTCCTCACACAGACAGCCCTATGTCAGACAGACAA 2250
 QY 2103 CTCTTCTTAATAATTAAGTCTCATATAAACCA 2141
 Db 2251 CTCTTCTTAATAATTAAGTCTCATATAAACCA 2289
 RESULT 9
 AD31563
 ID AAD31563 standard; DNA; 2290 BP.
 XX
 AA31563;
 AC
 XX
 DT 18-JUN-2002 (first entry)
 XX
 Human TIE ligand NTL DNA.
 KW Human; TIE ligand; NTL; cytostatic; osteopathic; vascularisation; toxin; muscular; immunosay; therapeutic; anti-tumour agent; muscle growth; bone development; maturation; angiogenesis; ds.
 XX
 OS Homo sapiens.
 XX
 FH Key location/Qualifiers
 FT CDS
 FT
 FT /*tag= a product= "Human NTL protein"
 XX
 PN US6350450-B1.
 XX
 PD 26-FEB-2002.
 XX
 PF 19-AUG-1998; 98US-00136828.
 XX
 PR 19-SEP-1997; 97US-0059588P.
 XX
 PA (GETH) GENENTECH INC.
 PT Godowski PJ, Gurney AL, Goddard A, Hillan K;
 XX
 WPI: 2002-215264127.
 DR P-PSDB; AAE19825.
 XX
 Novel isolated antibody which specifically binds to a mammalian NTL TIE ligand useful for immunoassays, delivery of cytotoxic molecules and as diagnostic agents to detect disease states.

XX

Claim 12; Fig 2; 59pp; English.

XX

The invention relates to an isolated antibody which specifically binds to a mammalian NTL TIE (tyrosine kinase containing Ig and EGF homology domains) ligand polypeptide which is capable of inducing vascularisation. The isolated antibody may be used in immunoassays to measure the amount of a TIE ligand in a biological sample. Additionally, the antibody may be used for the delivery of cytotoxic molecules, e.g. radioisotopes or toxins, or therapeutic agents to cells expressing a corresponding TIE receptor. The therapeutic agents may, for example, be other TIE ligands, including the TIE-2 ligand, members of the vascular endothelial growth factor (VEGF) family, or known anti-tumour agent, and agents known to be associated with muscle growth or development, or bone development, maturation, or growth. Anti-TIE ligand antibodies are also suitable as diagnostic agents, to detect disease states associated with the expression of a TIE (e.g. TIE-2) receptor. These detectably labelled antibody agonists of a TIE receptor can be used for imaging the presence of angiogenesis. The present sequence is human TIE ligand NTL DNA.

Sequence 2290 BP; 537 A; 692 C; 668 G; 393 T; 0 U; 0 Other;

XX

Query Match 98.1%; Score 2132.6; DB 6; Length 2290;
 Best Local Similarity 99.8%; Pred. No. 0; Mismatches 4; Indels 0; Gaps 0;
 Matches 2135; Conservative 0; Sequence 2290 BP; 537 A; 692 C; 668 G; 393 T; 0 U; 0 Other;

XX

QY	3	AATGAGCTGCTGGAAAGGCTGAGATGACCCAAACCTGACCCACCGTGAAGCTGCTGCCACT 62	Qy	1083	TCTACCAAGAGATCCAGAGTGACCAAGAACCTGAAAGGTGCTGCCACCCCTGTGCCACT 1142
Db	151	AATGAGCTGCTGGAAAGGCTGAGATGACCCAAACCTGACCCACCGTGAAGCTGCTGCCACT 62	Db	1231	TCTACCAAGAGATCCAGAGTGAACCTGACCCACCGTGAAGCTGCTGCCACT 1290
QY	63	GCACTGAGGCAAGGGCTGAGCTACTCGAGGCTGAGGAAAGGAGGTGAGCAGCCCGAGG 210	Qy	1143	ATGCCACTCTCACAGCTCCATCTCCACGACAGGACGCTGCACCCCTGTGCCACT 1202
Db	211	GCACTGAGGCAAGGGCTGAGCTACTCGAGGCTGAGGAAAGGAGGTGAGCAGCCCGAGG 210	Db	1291	ATGCCACTCTCACAGCTCCATCTCCACGACAGGACGCTGCACCCCTGTGCCACT 1350
QY	123	ACCCCTGCCAACCCTTGCCCAAGCTCTGGGGASACCTTGAGGAGAGGAGCTGAGCAGG 122	Qy	1203	TGCCTGAGGCCCTGGAGATGCCACAGACAGCTGAGCAGCCCTGTGCCACT 1262
Db	271	ACCCCTGCCAACCCTTGCCCAAGCTCTGGGGASACCTTGAGGAGAGGAGCTGAGCAGG 122	Db	1351	TGCCTGAGGCCCTGGAGATGCCACAGACAGCTGAGCAGCCCTGTGCCACT 1410
QY	183	GACCCAGCTGAGGCTGCCCTGAGGAGGCTGAGGAAAGGAGGTGAGGAAAGGAGCTGAGCAGG 242	Qy	1263	AACACCAACGCCCTCATCAGGGTGTGCGACCCCTCCAG 1322
Db	331	GACCCAGCTGAGGCTGCCCTGAGGAGGCTGAGGAAAGGAGGTGAGGAAAGGAGCTGAGCAGG 242	Db	1411	AACACCAACGCCCTCATCAGGGTGTGCGACCCCTCCAG 1470
QY	243	ACCCCTGCCAACCCTTGCCCAAGCTCTGGGGASACCTTGAGGAGAGGAGCTGAGCAGG 302	Qy	1323	GTCTTCAGAGGCCCTGAGGAGATGCCACAGCTGAGGAGGAGCTGAGCAGG 1382
Qy	391	ACCCCTGCCAACCCTTGCCCAAGCTCTGGGGASACCTTGAGGAGAGGAGCTGAGCAGG 450	Db	1471	GTCTTCAGAGGCCCTGAGGAGATGCCACAGCTGAGGAGGAGCTGAGCAGG 1530
QY	303	ACCCCTGCCAACCCTTGCCCAAGCTCTGGGGASACCTTGAGGAGAGGAGCTGAGCAGG 362	Qy	1383	CAAGGGTTGGGACATGACCGGAACTTGCTGGCTGAGGAGACATTACTGGCTG 1442
Db	451	ACCCCTGCCAACCCTTGCCCAAGCTCTGGGGASACCTTGAGGAGAGGAGCTGAGCAGG 510	Db	1531	CAAGGGTTGGGACATGACCGGAACTTGCTGGCTGAGGAGACATTACTGGCTG 1590
QY	363	GCAAGACCATGAGGCCACTTGCGTGCACACTCTGGTGTGGACTGCTGCTCCATG 422	Qy	1443	ACGACACGGCAACTACAACCTCTGGTGTGACCATGGAGGACTGGCCGGCGAAGTC 1502
Db	511	GCAAGACCATGAGGCCACTTGCGTGCACACTCTGGTGTGGACTGCTGCTCCATG 422	Db	1591	ACGACACGGCAACTACAACCTCTGGTGTGACCATGGAGGACTGGCCGGCGAAGTC 1650
QY	423	GGAGCTGTTGAGGCCAGGAGGAGGAGCTGAGGAGCTGAGGAGGAGCTGAGGAG 482	Qy	1503	TTTGAGATACCGCAATTCCTGCTGACCTGAGGAGCTGAGGAGCTGAGGAG 1562
Db	571	GGAGCTGTTGAGGCCAGGAGGAGCTGAGGAGCTGAGGAGGAGCTGAGGAG 630	Db	1651	TTTGAGATACCGCAATTCCTGCTGACCTGAGGAGCTGAGGAGGAGTATTAACTGCGCTG 1710
QY	483	TCATTTACTAACAGTACAGCGGCGGAGCTCCAGGACAGTGACCTACACC 542	Qy	1563	GGGGCTTACATGCAATGGGGGTGACCTGAGGAGCTGAGGAGCTGAGGAG 1622
Db	631	TCATTTACTAACAGTACAGCGGCGGAGCTCCAGGACAGTGACCTACACC 690	Db	1711	GGGGCTTACATGCAATGGGGGTGACCTGAGGAGCTGAGGAGCTGAGGAG 1770
QY	543	TTCATGCCCCAGGAGGGTCAAGGGTGCATCTGGTCACTCCAGGAGCTGAG 602	Qy	1623	ACCTTGAGAGACTACATCTGGTGTGACCTCTCTGAGGAGCTGAGGAG 1682
Db	691	TTCATGCCCCAGGAGGGTCAAGGGTGCATCTGGTCACTCCAGGAGCTGAG 602	Db	1771	ACCTTGAGAGACTACATCTGGTGTGACCTCTCTGAGGAGCTGAGGAG 1830
QY	603	GGCTTCTGAGAACCGAGTGCATAAGCAGGAGCTGAGGAGCTGCTCACAA 662	Qy	1683	TGGTGTATAACCTCTGGGACTCAACCTCTGAGGAGCTGAGGAGCTGAGGAG 1742
Db	751	GGCTTCTGAGAACCGAGTGCATAAGCAGGAGCTGAGGAGCTGAGGAGCTGCTC 810	Db	1831	TGGTGTATAACCTCTGGGACTCAACCTCTGAGGAGCTGAGGAGCTGAGGAG 1890
QY	663	AACGAGAGCCAGATGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 722	Qy	1743	TACGGAGCCGCTACCGAGGAGGAGTACTGGCTGAGTCCGAGGAGCTRACTCA 1802
Db	811	AACGAGAGCCAGATGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 870	Db	1891	TACGGAGCCGCTACCGAGGAGCTGAGTCCGAGGAGCTGAGGAGCTGAGGAGCTGAG 1950
Db	723	ACGGAGTTGAACTCTGCTGCCAGGAGGGCAAATGAACTCCGGGTCACGAGTC 782	Qy	1803	CTCAAGAAAGTGTGATGATGATGTCGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 1862
QY	671	ACGGAGTTGAACTCTGCTGCCAGGAGGGCAAATGAACTCCGGGTCACGAGTC 782	Db	1951	CTCAAGAAAGTGTGATGATGTCGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 2010
Db	783	TACATGAGCTCTGAGGAGATCATCGGAGACGGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 842	Qy	1863	CCCTCTGAGCTCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 1922
Db	931	TACATGAGCTCTGAGGAGATCATCGGAGACGGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 990	Db	2011	CCCTCTGAGCTCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 2070
QY	843	CTGGAGAACGAGATCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 902	Qy	1923	AAGAACACTCTCACAGTCATCTGGAGTGTGAGGAGCTGAGGAGCTGAGGAGCTGAG 1982
Db	991	CTGGAGAACGAGATCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 902	Db	2071	AAAGAACACTCTCACAGTCATCTGGAGTGTGAGGAGCTGAGGAGCTGAGGAGCTGAG 2130
QY	903	GACCTGGAGAACGAGATCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 962	Qy	1983	TTTCGAGTCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 2042
Db	1051	GACCTGGAGAACGAGATCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 962	Db	2131	TTTCGAGTCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 2190
QY	963	GCGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 1022	Qy	2043	TACCTTCCTCACACAGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 2102
Db	1111	GCGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 1170	Db	2191	TACCTTCCTCACACAGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 2250
QY	1023	CCGGCTGCCCTGCCCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 1082	Qy	2103	CTCTTCCTTAATAAATTAAGTCTCACATAAAACA 2141
Db	1171	CCGGCTGCCCTGCCCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG 1230	Db	2251	CTCTTCCTTAATAAATTAAGTCTCACATAAAACA 2289

RESULT 10
 ID ACD23986
 XX ACD23986 standard; cDNA; 2290 BP.
 AC ACD23986;
 XX DT 26-AUG-2003 (first entry)
 DE Novel human secreted and transmembrane protein PRO196 cDNA.
 XX Human; secreted and transmembrane protein; PRO; antiinflammatory;
 KW antiarteriosclerotic; cardiot; anti-infertility; anti-HIV; cyostatic;
 KW antidiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release;
 KW TNF-alpha release; cell proliferation; cell differentiation;
 KW gene expression modulator; proteoglycan release; cytokine release;
 KW tumour; inflammatory disease; organ failure; atherosclerosis;
 KW cardiac injury; infertility; birth defect; premature aging; AIDS;
 KW acquired immunodeficiency syndrome; cancer; diabetic complication;
 KW chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor;
 KW bioreactor; tissue typing; gene; ss.
 XX OS Homo sapiens.
 XX PN US2003032156-A1.
 XX PD 13-FEB-2003.
 XX PP 06-MAY-2002; 2002US-00140474.
 XX PR 31-MAR-1997; 97WO-US005230.
 PR 12-JUN-1998; 98WO-US012456.
 PR 14-JUL-1998; 98WO-US014552.
 PR 28-AUG-1998; 98WO-US017888.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98WO-US019093.
 PR 20-NOV-1998; 98WO-US019094.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 07-OCT-1998; 98WO-US021141.
 PR 29-OCT-1998; 98WO-US022991.
 PR 14-MAR-1999; 98WO-US024855.
 PR 01-DEC-1998; 98WO-US025108.
 PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 10-MAR-1999; 99WO-US005190.
 PR 20-APR-1999; 99WO-US00815.
 PR 14-MAY-1999; 99WO-US010733.
 PR 02-JUN-1999; 99WO-US012252.
 PR 01-SEP-1999; 99WO-US020111.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US02094.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021147.
 PR 05-OCT-1999; 99WO-US023089.
 PR 29-NOV-1999; 99WO-US028214.
 PR 30-NOV-1999; 99WO-US028313.
 PR 16-DEC-1999; 99WO-US030305.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US030939.
 PR 22-DEC-1999; 99WO-US030730.
 PR 02-DEC-1999; 99WO-US028551.
 PR 02-DEC-1999; 99WO-US028554.
 PR 03-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US03124.
 PR 30-DEC-1999; 99WO-US03124.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 06-JAN-2000; 2000WO-US0003176.

PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US0034341.
 PR 18-FEB-2000; 2000WO-US004442.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US00504.
 PR 01-MAR-2000; 2000WO-US005601.
 PR 02-MAR-2000; 2000WO-US007746.
 PR 02-MAR-2000; 2000WO-US005941.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US006384.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 21-MAR-2000; 2000WO-US007532.
 PR 30-MAR-2000; 2000WO-US084339.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014442.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US022010.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023322.
 PR 24-AUG-2000; 2000WO-US02328.
 PR 08-NOV-2000; 2000WO-US030932.
 PR 10-NOV-2000; 2000WO-US030873.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000WO-US022031.
 PR 20-DEC-2000; 2000WO-US034936.
 PR 26-FEB-2001; 2001WO-US017938.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US006666.
 PR 09-MAR-2001; 2001US-00802766.
 PR 14-MAR-2001; 2001US-00808639.
 PR 22-MAR-2001; 2001US-00816744.
 PR 05-APR-2001; 2001US-00828366.
 PR 10-MAY-2001; 2001US-00854208.
 PR 10-MAY-2001; 2001US-00854280.
 PR 18-MAY-2001; 2001US-00860216.
 PR 25-MAY-2001; 2001US-00747239.
 PR 25-MAY-2001; 2001WO-US017932.
 PR 01-JUN-2001; 2001US-00872035.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00882636.
 PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 21-JUN-2001; 2001US-00887879.
 PR 22-JUN-2001; 2001WO-US020115.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 18-JUL-2001; 2001US-00908827.
 PR 16-AUG-2001; 2001US-0024419.
 PR 09-AUG-2001; 2001US-00327796.
 PR 16-AUG-2001; 2001US-0031835.
 PR 19-DEC-2001; 2001US-00028072.
 XX (GETH) GENENTECH INC.
 XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W,
 Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S,
 Smith V, Stewart TA, Tumas D, Watanaabe CK, Wood WI, Zhang Z;
 XX DR WPI: 2003-341980/32.
 XX P-PSDB; ABO17749.
 XX New secreted and transmembrane PRO nucleic acids, for treating
 inflammation, organ failure, atherosclerosis, cardiac injury,
 infertility, birth defects, premature aging, acquired immunodeficiency
 syndrome (AIDS), or cancer.
 XX Claim 2; Fig 267; 660pp; English.
 XX The invention describes an isolated nucleic acid (I) comprising, or which

has 80 % sequence identity to, or the full-length coding sequence of, one of 275 nucleotide sequences, and which encodes a corresponding polypeptide selected from 275 amino acid sequences, where all sequences are given in the specification. The polypeptide encoded by (1) is used to detect PRO polypeptides, link a biactive molecule to a cell expressing a PRO polypeptides, modulate a biological activity of a cell, stimulate the release of tumour necrosis factor (TNF)-alpha from human blood, modulate the uptake of glucose or free fatty acid by cells, stimulate or inhibit the proliferation or differentiation of cells or gene expression, stimulate the release of proteoglycans, stimulate the release of cytokine from peripheral blood mononuclear cells, inhibit the binding of A-peptide to factor VIIa, or detect the presence of tumour in a mammal. The nucleic acid and polypeptide encoded by it, are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, acquired immunodeficiency syndrome (AIDS), cancer, or diabetic complications. The nucleic acid is useful as hybridisation probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing. This sequence encodes a novel human secreted and transmembrane PRO polypeptide.

Sequence	2290 BP; 537 A; 692 C; 668 G; 393 T; 0 U; 0 other;
Query Match	98.1%; Score 2132.6; DB 7; Length 2290;
Best Local Similarity	99.8%; Pred. 0; Mismatches 0; Gaps 0.
Matches	2135; Conservative 0; MisMatches 4; Indels 0; Gaps 0.
Qy	3 AAATCAGGCGCGCCGGACGCCCTGAGGAATGAAACCCAAAGCCCTGAACTTCCGCAGCGTG 62
Dy	151 AAATCAGGCGCGCCGGACGCCCTGAGGAATGAAACCCAAAGCCCTGAACTTCCGCAGCGTG 210
Qy	63 GCACAGTCAGCGAGCGCTGAGCTACTGTGAGGAAAGAGGTGTGGCAAGCCCCAGG 122
Dy	211 GCACAGTCAGCGAGCGCTGAGCTACTGTGAGGAAAGAGGTGTGGCAAGCCCCAGG 270
Qy	123 ACCCTGGCAGCCCTGGCCCAAGCTCTGGCGAGGCTCTGGGGCGAGGCG 182
Dy	271 ACCCTGGCAGCCCTGGCCCAAGCTCTGGCGAGGCTCTGGGGCGAGGCG 330
Qy	183 GAGCCAGTGGCAGGGCTGCTGGAGCCACGGCTGCAACTCAGGAAACCCCTCAG 242
Dy	331 GAGCCAGTGGCAGGGCTGCTGGAGCCACGGCTGCAACTCAGGAAACCCCTCAG 390
Qy	243 AGSCCATGACAGGCTCCCGTGAGGCGAGGTTAGATGGAGGAGCCGCCCG 302
Dy	391 AGGCATGGACAGGCTGCCCGCTGAGGCCAGGTAGACATGGAGGCCCG 450
Qy	303 AGCCAGAGGAGAGGCTTCTAGATCTTACAAAGATAACCAATT 362
Dy	451 AGCCAGGAGGAGGAGGCTGAGCTTACAAAGATAACCAATT 510
Qy	363 GCAAGACCATGAGGCCACTTGCGTGACATGTTGGCTGCTGGACTGCTGCCATG 422
Dy	511 GCAGGACCATGAGGCCACTTGCTGACATGCTGGCTGCTGGACTGCTGCCATG 570
Qy	423 GGAGCTGTGAGGCCAGGAGGAGGCTTGGGGCTGAGGAGGCTGCCAGAGAG 482
Dy	571 GGAGCTGTGAGGCCAGGAGGAGGCTTGGGGCTGAGGAGGCTGCCAGAGAG 630
Qy	483 TTCAATTCTAACAGAATCACAGCGGGCGGGGAGTCCAGAACAGTGACCACTAC 542
Dy	631 TTCAATTCTAACAGAATCACAGCGGGCGGGGAGTCCAGAACAGTGACCACTAC 690
Qy	543 TTCAATTCTAACAGAATCACAGCGGGCGGGGAGTCCAGAACAGTGACCACTAC 602
Dy	691 TTCAATTCTAACAGAATCACAGCGGGCGGGGAGTCCAGAACAGTGACCACTAC 750
Qy	603 GTCCTCTGGAGGAGGAGGCTGATACAGAGGCTAGAGCTGCTCAACATGAGTC 662
Dy	751 GTGCTTCTGGAGGAGGAGGAGGCTGATACAGAGGCTAGAGCTGCTCAACATGAGTC 810
Qy	663 AAGGAGAAGGGAGATGAGAGCGCTCAGAGCTGCTGGAGGTCAGCGGGGATTCTG 722

Db	811	AAGCAGAAGCGGCGAGATGAGACGCGCTGAGGAGCGGAGCGCCAAAGATGACTCGGGGTACCGAGCTC	870
Qy	723	AGGGAGGTGAAGTGTGCGCAAGGAGAGCGCCAAAGATGACTCGGGGTACCGAGCTC	782
Db	871	ASCGAGGTGAACTGTGCGCAAGGAGAGCGCCAAAGATGACTCGGGGTACCGAGCTC	930
Qy	783	TACATGCGACTCTGCGAGGATCATCGCGAGAGCGGAGCGCAACATGACTCGGGGTACCGAGCTC	842
Db	931	TACATGAGCTCTGCGAGGATCATCGCGAGAGCGGAGCGACACGCGCTTGGAAGCTCCAG	990
Qy	843	CTGGAGAACAGATCTGAAACAGAGAGCGGACATGTCAGTCGGCTGAGCTGGCCACAGCAAGTA	902
Db	991	CTGGAGAACAGAGTCTGAAACAGAGAGCGGACATGTCAGTCGGCTGAGCTGGCCACAGCAAGTA	1050
Qy	903	GACCTGGAGAACAGAACGACACTGGCCACTGGCCACAGGACACATGTCAGTCGGCTGAGCTGGCCACAGCAACTA	962
Db	1051	GACCTGGAGAACAGAACGACACTGGCCACAGGACACATGTCAGTCGGCTGAGCTGGCCACAGCAACTA	1110
Qy	963	GCGGAGCTGAGGAGACTGCCAGAGGGTGCCTGGCCAGGGCCCTGGCCAGGGCCAGGACCC	1022
Db	1111	GGGCACCTGTAGGAGGACTTGCGAGAGGGTGCCTGGCCAGGGCCCTGGCCAGGACCC	1170
Qy	1023	CCGGCTCCCGCCGGCCGGTCTACCAACCCACCTACACCCATCACACCACATCAACAGATC	1082
Db	1171	CCGGCTCCCGCCGGCCGGTCTACCAACCCACCTACACCCATCACACCACATCAACAGATC	1230
Qy	1083	TCTTACACAGATCCAGAATGACGAGGACCTGGCCACCTACACCCATCACACCACCT	1142
Db	1231	TCTTACACAGATCCAGAATGACGAGGACCTGGCCACCTACACCCATCACACCACCT	1290
Qy	1143	ATGCCCACTCTACCGCCCTCCATCTTCCACCGACAAACCGCTGGGCCATGAGAGAC	1202
Db	1291	ATGCCCACTCTACCGCCCTCCATCTTCCACCGACAAACCGCTGGGCCATGAGAGAC	1350
Qy	1203	TGCCTTCAGGCTCTGAGGATGGCCAGAACCTCCATCTACCTGGTGAAGCCGGAG	1262
Db	1351	TGCCTTCAGGCTCTGAGGATGGCCAGAACCTCCATCTACCTGGTGAAGCCGGAG	1410
Qy	1263	AACACCAAACCGCTCTGAGGATGGCCAGAACCTGGTGAAGCCGGGGTGAGGCC	1322
Db	1411	AACACCAAACCGCTCTGAGGATGGCCAGAACCTGGTGAAGCCGGGGTGAGGCC	1470
Qy	1323	GTCATCAGAGACGCGCTGGATGGCTCTGTTAACTCTTCAGGACTGGAGAGCTACAG	1382
Db	1471	GTCATCAGAGACGCGCTGGATGGCTCTGTTAACTCTTCAGGACTGGAGAGCTACAG	1530
Qy	1383	CAAGGTTGGAAATTGGGGGAAATCTGGTGGGAAATCTGGTGGGCTGAGAAATTCTGTG	1442
Db	1531	CAAGGTTGGAAATTGGGGGAAATCTGGTGGGCTGAGAAATTCTGTG	1590
Qy	1443	ACGACCAAGGCAACTACAACACTCTGGTGGGCTGAGAAATTCTGTG	1502
Db	1591	ACGACCAAGGCAACTACAACACTCTGGTGGGCTGAGAAATTCTGTG	1650
Qy	1503	TTTGTGAAATCGCGATTCCGCGCTGGGACCTGAGGGAGGATATAAGCTGGCTG	1562
Db	1651	TTTGTGAAATCGCGATTCCGCGCTGGGACCTGAGGGAGGATATAAGCTGGCTG	1710
Qy	1563	GGGGCTTACCATGGCATGGGGTGAATCTCTTACATGGCACACAGCAAGCGTTCACC	1622
Db	1711	GGGGCTTACCATGGCATGGGGTGAATCTCTTACATGGCACACAGCAAGCGTTCACC	1770
Qy	1683	TGGCTGATTAACGCGCTGCGCTCACTGGGAACTGCGCAACTGGCCAGGGGGCAT	1742
Db	1761	TGGCTGATTAACGCGCTGCGCAACTGGGAACTGCGCAACTGGCCAGGGGGCAT	1830
Qy	1771	ACCCCTGAGAACAGATGATGTCATGAGGAAACTGGCCACTACAGAGGGGGC	1890
Db	1743	TACCGGAGGCCCTACCGAGGGAGCTACTGGCTGAGGAGGGCTTACATCA	1802

Db	1891 TACCGGAGGCCCTACCAAGGAGGGACTACTGGGTGAGTTCCGAGGAGCTTACTCA	1950	PR	10-SEP-1998;	98US-0099803P.
QY	1803 CTCAGAAGGAGGTGATGATATCCGACCGAACCCAACTTCACTAACGGCTTACTCA	1862	PR	10-SEP-1998;	98US-0099811P.
Db	1951 CTCAGAAGGAGGTGATGATATCCGACCGAACCCAACTTCACTAACGGCTTACTCA	2010	PR	10-SEP-1998;	98WO-US018844.
QY	1863 CCTCTCTGACCTCTCGGGCATGGAAGGCCCCACCTGAGCTGGCACAGCAC	1922	PR	14-SEP-1998;	98WO-US019033.
Db	2011 CCTCTCTGACCTCTCGGGCATGGAAGGCCCCACCTGAGCTGGCACAGCAC	2070	PR	14-SEP-1998;	98WO-US019330.
QY	1983 TTTCGAGTAGTACTGAGGGATGAGGAATGAAATGAGTAGGGTTTCTGCGCTC	2042	PR	17-SEP-1998;	98US-010855P.
Db	2131 TTTCGAGTAGTACTGAGGGATGAGGAATGAAATGAGTAGGGTTTCTGCGCTC	2190	PR	17-SEP-1998;	98WO-US019427.
QY	2043 TACTTCCTCACACAGAGGCCTCATGCTCCAGGAGGAGGAGCTGGATGTTG	2130	PR	24-SEP-1998;	98US-0101922P.
Db	2191 TACTTCCTCACACAGAGGCCTCATGCTCCAGGAGGAGCTGGATGTTG	2250	PR	28-OCT-1998;	98US-0106032P.
QY	2103 CTCTCTTAAATAATTAGTCCTACATAAACCA	2141	PR	20-NOV-1998;	98US-010930CP.
Db	2251 CTCTCTTAAATAATTAGTCCTACATAAACCA	2289	PR	20-NOV-1998;	98WO-US024855.
RESULT 11					
ACD42312	Novel human secreted and transmembrane protein PRO196 cDNA.		PR	25-NOV-1998;	98WO-US025190.
ID	ACD42312 standard; cDNA; 2290 BP.		PR	01-DEC-1998;	98WO-US025108.
AC			PR	08-MAR-1999;	98WO-US005028.
XX			PR	02-MAR-1999;	98US-0125778P.
DE			PR	02-JUN-1999;	98WO-US012252.
XX			PR	15-JUN-1999;	98US-013969P.
AC			PR	20-JUL-1999;	98US-014569P.
XX			PR	26-JUL-1999;	98US-014507P.
DT	05-SEP-2003 (first entry)		PR	30-NOV-1999;	98US-014569P.
XX			PR	01-DEC-1999;	98US-014939P.
DE	Novel human secreted and transmembrane protein PRO196 cDNA.		PR	01-SEP-1999;	98WO-US020111.
XX			PR	08-SEP-1999;	98WO-US02054.
AC			PR	15-SEP-1999;	98WO-US021050.
XX			PR	20-OCT-1999;	98US-013693P.
DE	Human; secreted and transmembrane protein; PRO; antidiabetic; ophthalmological; chrostatic; immunostimulant; gene therapy; vascular endothelial growth factor inhibitor; hypertension of adult heart; protein secretion disorder; pancreas disorder; diabetes; vascular permeability; retinal neuron cell survival; retinal disorder; immune response; inflammation; mononuclear cell infiltration; eosinophil infiltration; apoptosis; neoplastic growth; gene; ss. OS Homo sapiens.		PR	26-OCT-1999;	98US-014369P.
XX	US200304014-A1.		PR	01-NOV-1999;	98US-014369P.
XX	PD 27-FEB-2003.		PR	01-DEC-1999;	98WO-US002129.
XX	PP 01-FEB-2002; 2002US-00066269.		PR	05-JAN-2000;	2000WO-US004341.
XX	PR 26-AUG-1997; 97US-0056374P.		PR	18-FEB-2000;	2000WO-US004342.
PR	17-SEP-1997; 97US-0059115P.		PR	22-FEB-2000;	2000WO-US004414.
PR	18-SEP-1997; 97US-0059263P.		PR	01-MAR-2000;	2000WO-US00561.
PR	17-OCT-1997; 97US-006285P.		PR	02-MAR-2000;	2000WO-US005841.
PR	19-SEP-1997; 97US-005988P.		PR	09-MAR-2000;	2000WO-US006471.
PR	24-OCT-1997; 97US-0062816P.		PR	20-MAR-2000;	2000WO-US007377.
PR	24-OCT-1997; 97US-0063082P.		PR	30-MAR-2000;	2000WO-US008439.
PR	27-OCT-1997; 97US-006329P.		PR	15-MAY-2000;	2000WO-US013358.
PR	28-OCT-1997; 97US-0063733P.		PR	17-MAY-2000;	2000WO-US013795.
PR	21-NOV-1997; 97US-0066364P.		PR	20-MAY-2000;	2000WO-US014042.
PR	25-NOV-1997; 97US-0066840P.		PR	30-MAY-2000;	2000WO-US014941.
PR	09-FEB-1998; 98US-0074066P.		PR	02-JUN-2000;	2000WO-US015264.
PR	09-FEB-1998; 98US-0074066P.		PR	11-AUG-2000;	2000WO-US022031.
PR	09-FEB-1998; 98US-0074066P.		PR	23-AUG-2000;	2000WO-US02352.
PR	09-FEB-1998; 98US-0074066P.		PR	24-AUG-2000;	2000WO-US023328.
PR	09-FEB-1998; 98US-0074066P.		PR	01-DEC-2000;	2000WO-US032678.
PR	28-FEB-2001; 2001WO-US005520.		PR	28-FEB-2001;	2001WO-US005520.
PR	30-MAY-2001; 2001WO-US017443.		PR	01-JUN-2001;	2001WO-US017443.
PR	01-JUN-2001; 2001WO-US017800.		PR	20-JUN-2001;	2001WO-US019692.
PR	29-JUN-2001; 2001WO-US021066.		PR	09-JUL-2001;	2001WO-US021066.
PR	09-JUL-2001; 2001WO-US021735.		PR	15-NOV-2001;	2001US-00002795.
XX	(GETH) GENENTECH INC.				
XX	Aszkenasy AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL, Ferrara N, Fong S, Gao W, Gerber H, Gerrissen ME, Goddard A, Godowski PJ, Gurney AL, KJavlin IJ, Mather JP, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TA, Tomas D, Watanabe CK, Williams DM, Wood WI, Zhang Z;				
XX	WPI; 2003-503396/47.				
DR	P-PSDB; ABO25150.				
XX	New secreted and transmembrane PRO polypeptides, useful for treating diabetes, retinal disorders and stimulating an immune response.				
XX	Claim 2; Fig 1; 254pp; English.				
CC	The invention describes an isolated polypeptide (I) having at least 80 %				
PR	18-AUG-1998; 98US-009700P.				
PR	09-SEP-1998; 98US-0099601P.				

(GEBTH) GENENTECH INC.

XX 02-MAR-2000; 200003-05005/46.

PA XX

PT Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;

PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;

PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

XX DR WPI; 2003-352836/33.

PS P-PSDB; ABU81003.

XX PR New isolated PRO polypeptide useful for treating diabetes, rheumatoid arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or heart attack.

XX Claim 2; Fig 267; 643PP; English.

CC The present invention relates to the isolation of novel human PRO polypeptides, and the polynucleotide sequences encoding them. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides and polynucleotides are useful for preparing a medicament useful in the treatment of diabetes, bone and/or cartilage disorders (e.g., rheumatoid arthritis, sports injuries, osteoarthritis); obesity, hyper- or hypoglycemia, hearing loss, and coagulation disorders (e.g., stroke, heart attack). Anti-PRO antibodies are useful in diagnostic assays for PRO, by detecting its expression in specific cells, tissues or serum, and for affinity purification of PRO from recombinant cell culture or natural sources. AC66994-AC67268 represent cDNA sequences encoding the human PRO polypeptides of the invention. Note: The sequence data for this patent was obtained in electronic format directly from the USPTO web site at seqdata.uspto.gov/psipidEntry.html

SQ Sequence 2290 BP; 537 A; 692 C; 668 G; 393 T; 0 U; 0 Other;

Query Match Best Local Similarity 98.1%; Score 2132.6; DB 7; Length 2290; Matches 2135; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 AAATGGGGCTGCGGAGCCAGCTGAGGTGAACCCCAGGCCAGCTGACCTGCGAGGGT 62

Db 151 AAATGGGGCTGCGGAGCCAGCTGAGGTGAACCCCAGGCCAGCTGCGAGGGT 210

QY 63 GCACTGAGCAGGGCTGAGCTACTTGAGGGAAAGAGGGTTGAGCACGCCAGGG 122

211 GCACTGAGCAGGGCTGAGCTACTTGAGGGAAAGAGGGTTGAGCACGCCAGGG 270

QY 123 ACCCTGAGCAGGGCTGAGCCAGCTCTGCGGAGCCCTCTGTGAGGGAAAGAGGGT 182

QY 271 ACCCTGAGCAGGGCTGAGCCAGCTCTGCGGAGCCAGCTCTGTGAGGGAAAGAGGGT 330

QY 183 GACCCAGTGGAGGAGGGCTGCGGAGCCAGCTCTGCGGAGCCAGCTCTGTGAGGG 242

331 GACCCAGTGGAGGAGGGCTGCGGAGCCAGCTCTGTGAGGGAAAGAGGGTTGAGGG 390

Db 141 AGCCCATGGAGGAGGGCTGCGGAGCCAGCTCTGTGAGGGAAAGAGGGTTGAGGG 450

Db 303 AGCCCATGGAGGAGGGCTGCGGAGCCAGCTCTGTGAGGGAAAGAGGGTTGAGGG 302

QY 243 AGCCCATGGAGGAGGGCTGCGGAGCCAGCTCTGTGAGGGAAAGAGGGTTGAGGG 302

Db 1411 AGCCCATGGAGGAGGGCTGCGGAGCCAGCTCTGTGAGGGAAAGAGGGTTGAGGG 1470

Db 1323 GTCATCCAGAGGAGGGCTGCGGAGCCAGCTCTGTGAGGGAAAGAGGGTTGAGGG 1382

QY 1471 GTCATCCAGAGGAGGGCTGCGGAGCCAGCTCTGTGAGGGAAAGAGGGTTGAGGG 1530

Db 1383 CAAGGGTTGGACATGGCGGAGTAATCTGCGGAGCTGCGGAGCTTACTGGCTG 1442

Db 1531 CAAGGGTTGGACATGGCGGAGCTGCGGAGCTAATCTGCGGAGCTTACTGGCTG 1590

QY 1443 AGCAACGAGGAGCACTAACCTCTGTGACATGGAGGACTGGCGGAGCCAGACT 1502

Db 1591 AGCAACGAGGAGCACTAACCTCTGTGACATGGAGGACTGGCGGAGCCAGACT 1650

Db 1503 TTGCGAGATAAGCCAGTTCCGCCTGAGGAGCTGAGGGAGTATAAGGGCGCTG 1562

Db 1551 TTGCGAGATAAGCCAGTTCCGCCTGAGGAGCTGAGGGAGTATAAGGGCGCTG 1710

QY 1563 GGGGCTTACATGGCAATGGCGGAGCTCTTACATGGCAACGGAGGTTGACCTAC 1622

Db 1711 GGGGCTTACATGGCAATGGCGGAGCTCTTACATGGCAACGGCAAGGAGTCACC 1770

QY	1623	ACCTCGACAGAGATGATGTCACAGGAACCTGTGCCACTTACAGAACGGGGC	1682	PR	20-NOV-1998;	99WO-US024855.
Db	1771	ACCTCGACAGAGATGATGTCACAGGAACCTGTGCCACTTACAGAACGGGGC	1830	PR	01-DEC-1998;	99WO-US025100.
QY	1683	TGGTGTGATAAGGCCTGTGCCACTCAACTCAACCTCACAGGGCTGTACCGGGGCGAT	1742	PR	05-JAN-1999;	99WO-US0003028.
Db	1831	TGGTGTGATAAGGCCTGTGCCACTCAACCTCACAGGGCTGTACCGGGGCGAT	1890	PR	10-MAR-1999;	99WO-US05390.
Db	1743	TACCGAGGCCCTACAGGAGGAGCTACTGGCTGAGTCCGAGGAGCTTACAGAAGGGGC	1802	PR	14-APR-1999;	99WO-US00815.
QY	1891	TACCGAGGCCCTACAGGAGGAGCTTACAGAAGGGGC	1950	PR	02-JUN-1999;	99WO-US01252.
QY	1803	CTCAAGAAAGTGTGATGATGCCAACGGACCCACCTTCAACTAACGGGGCTGTACCGGGGCTGTACCGGGGCGAT	1862	PR	01-SEP-1999;	99WO-US020211.
Db	1951	CTCAAGAAAGTGTGATGATGCCAACGGGGCTGTACCGGGGCGAT	1910	PR	01-SEP-1999;	99WO-US020594.
QY	1863	CCTCCCTGACCTCTGTGCCATTGGCAGGAGCCCCCTGTACCGGGGCTGTACCGGGGCGAT	1922	PR	13-SEP-1999;	99WO-US020944.
Db	2071	AAAGAACTCTCACCGAGTCTACTTACAGAAGGGCTGTACCGGGGCGAT	2130	PR	15-SEP-1999;	99WO-US021090.
Db	2011	CCCTCTGACCTCTGTGCCATTGGCATTGGCAGGAGCCCCCTGTACCGGGGCGAT	2070	PR	15-SEP-1999;	99WO-US010733.
QY	1923	AAAGAACTCTCACCGAGTCTACTTACAGAAGGGCTGTACCGGGGCGAT	1802	PR	05-OCT-1999;	99WO-US020389.
Db	2131	TTTCGGAAGTCACTTGAGGGATGATGAGTCACTTAAGCCAGCTCC	2190	PR	29-NOV-1999;	99WO-US028214.
QY	2043	TACTTCTTACACAGACAGCCCCTAGTGTCTAGGAGTCTAGGAGGAGCTACAGACA	2102	PR	30-NOV-1999;	99WO-US028213.
Db	2191	TACTTCTTACACAGACAGCCCCTAGTGTCTAGGAGGAGCTACAGACA	2141	PR	02-DEC-1999;	99WO-US028554.
Db	2103	CTCTTCTTAAATAATTAGTCTTACATAAAACA	2250	PR	02-DEC-1999;	99WO-US028656.
QY	2251	CTCTTCTTAAATAATTAGTCTTACATAAAACA	2289	PR	16-DEC-1999;	99WO-US028301.
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ACR03736				PR	05-OCT-1999;	99WO-US028354.
ID	ACR03736	standard; cDNA; 2290 BP.		PR	05-OCT-1999;	99WO-US028354.
XX				PR	29-NOV-1999;	99WO-US028314.
AC	ACR03736;			PR	30-NOV-1999;	99WO-US028313.
XX				PR	01-DEC-1999;	99WO-US02831.
DT	23-MAY-2003	(first entry)		PR	02-DEC-1999;	99WO-US028354.
CDNA	encoding human PRO polypeptide #134.			PR	02-DEC-1999;	99WO-US028354.
XX	Human: PRO polypeptide; secreted and transmembrane protein; tumour necrosis factor-alpha; TNF-alpha; blood; proliferation; differentiation; chondrocyte; tumour; genetic disorder; cytostatic; gene; ss.			PR	03-DEC-1999;	99WO-US031274.
XX	OS	Homo sapiens.		PR	03-DEC-1999;	99WO-US031274.
XX	PN	US2003036180-A1.		PR	04-JAN-2000;	99WO-US030911.
PD	20-FEB-2003.			PR	04-FEB-1999;	99WO-US021547.
XX	09-MAY-2002;	2002US0-00143114.		PR	04-FEB-1999;	99WO-US021547.
XX	PR	31-MAR-1997;	97WO-US005230.	PR	04-FEB-1999;	99WO-US021547.
PR	12-JUN-1998;	98WO-US012456.		PR	04-FEB-1999;	99WO-US021547.
PR	14-JUL-1998;	98WO-US014552.		PR	04-FEB-1999;	99WO-US021547.
PR	20-AUG-1998;	98WO-US017888.		PR	04-FEB-1999;	99WO-US021547.
PR	10-SEP-1998;	98WO-US018824.		PR	04-FEB-1999;	99WO-US021547.
PR	14-SEP-1998;	98WO-US019093.		PR	04-FEB-1999;	99WO-US021547.
PR	14-SEP-1998;	98WO-US019094.		PR	04-FEB-1999;	99WO-US021547.
PR	14-SEP-1998;	98WO-US019177.		PR	04-FEB-1999;	99WO-US021547.
PR	16-SEP-1998;	98WO-US019330.		PR	04-FEB-1999;	99WO-US021547.
PR	17-SEP-1998;	98WO-US019437.		PR	04-FEB-1999;	99WO-US021547.
PR	07-OCT-1998;	98WO-US021141.		PR	04-FEB-1999;	99WO-US021547.
PR	29-OCT-1998;	98WO-US022991.		PR	04-FEB-1999;	99WO-US021547.
PR	29-OCT-1998;	98WO-US022992.		PR	04-FEB-1999;	99WO-US021547.
PR	01-JUN-2001;	2001WO-US008717800.		PR	04-FEB-1999;	99WO-US021547.

PR	05-JUN-2001; 2001US-00874503.	QY	303 AGCCAGGAGGGAGAGGCTTCATAGTCTTCAAGATAACCAATT 362
PR	14-JUN-2001; 2001US-00882336.	Db	451 ACCAACGAGGGAGAGGCTTCATAGTCTTCAAGATAACCAATT 510
PR	19-JUN-2001; 2001WO-US00886342.	QY	363 GAAAGCCATAGGCACCTGGTGACACCTGGCTGGGACTGCTGCGATG 422
PR	20-JUN-2001; 2001WO-US019892.	Db	511 GCAAGCAGGAGGCACTGGGTGACAGCTCCATGACGGAG 570
PR	21-JUN-2001; 2001US-00888797.	QY	423 GAGCTTGAGGCCAGGAGGACGGTTTGGGACTGAGGAGGCTCCAGAG 482
PR	22-JUN-2001; 2001WO-US020166.	Db	571 GAGCTTGAGGCCAGGAGGACGGTTTGGGACTGAGGAGGCTCCAGAG 630
PR	29-JUN-2001; 2001WO-US021066.	QY	483 TCCATTACCTAACAGGTAAGCGGGCGGGAGCTCCAGGACAGTSACCTCAC 542
PR	09-JUL-2001; 2001WO-US021735.	Db	631 TCATTACCTAACAGGTAAGCGGGCGGGAGCTCCAGGACAGTCAC 690
PR	18-JUL-2001; 2001US-0098827.	QY	543 TTCAATTGCCCCAGAGGTCACAGGGTCACTGCTGACTCACAGGCTGAG 602
PR	06-AUG-2001; 2001US-0092419.	Db	691 TTCAATTGCCCCAGAGGTCACAGGGTCACTGCTGACTCACAGGCTGAG 750
PR	09-AUG-2001; 2001US-00927796.	QY	603 GTGCTTGAGACCAGTCATAAGCAGGACTAGCTGAGGAGGCTCCAGAG 662
PR	16-AUG-2001; 2001US-00931836.	Db	751 GNGCTTGAGGAGACCGAGTCATAGCAGAGTCAGAGCTGCTGCT 810
PR	19-DEC-2001; 2001US-00028072.	QY	663 AAGCAGAGCCAGATCGAGACCGCTGAGGAGCTGGAGGAGCATGTG 722
PA	(GETH) GENETECH INC.	Db	811 AACAGAAGGCGAGATCGAGACCGCTGAGGAGCATGTG 870
XX	Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;	QY	723 AGCGAGGTGAAGCTGCTGCGAGAGGAGCCACATGACTCGGGTACCGAGTC 782
PI	Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sierwood S;	Db	871 AGCGAGGTGAAGCTGCTGCGAGAGGAGCCACATGACTCGGGTACCGAGTC 930
PI	Smith V, Stewart TA, Tunas D, Watanabe CK, Wood WI, Zhang Z;	QY	783 TACATCAGCTCTCACGAGATCATCGGAGCGACAGCGCTGGAGCTCTCCAG 842
XX	WPI ; 2003-332040/31.	Db	931 TACATCAGCTCTCACGAGATCATCGGAGCGACAGCGCTGGAGCTCTCCAG 990
DR	P-PSDB; AU66703.	QY	843 CTGGAGAACAGATCCTGAAACAGACGGCACATGCTGAGCTGGCCAGACTACAG 902
XX	New secreted and transmembrane PRO nucleic acids, useful for gene	Db	991 CTGGAGAACAGATCCTGAAACAGACGGCACATGCTGAGCTGGCCAGACTACAG 1050
PT	therapy, in chromosome and gene mapping as chromosome markers, in tissue	QY	903 GACCGAGGACAAGTACCGACACTGGCCACATGGCCACACATGAGATCATC 962
PT	typing, and in chromosome identification.	Db	1051 GACCTTGAGGACAATACACGACCTGGCCACATGGCCACACAACTACAG 1110
XX	Claim 2; Fig 267; 660pp; English.	QY	963 GCGCAGCTGGGAGACTCCAGGGTCCAGGGTCCCTGGCCAGGCCCACAGCACCC 1022
XX	The present invention relates to the isolation of novel human PRO	Db	1111 GCGCAGCTGGGAGACTCCAGGGTCCCTGGCCAGGCCCACAGCACCC 1170
CC	polypeptides, and the polynucleotide sequences encoding them. The PRO	QY	1023 CCGCGTGCCTGGGCTTACCAACCAACCTACACCGATCATACAGATC 1082
CC	polypeptides are secreted and transmembrane proteins. The PRO	Db	1171 CCGCGTGCCTGGGCTTACCAACCAACCTACACCGATCATACAGATC 1230
CC	polypeptides are useful for detecting other PRO polypeptides, for linking	QY	1083 TCTACCAACGAGATCAGAGTGACAGAACCTGGAGGTGTCGACCCCTCTGGC 1142
CC	biactive molecules to cells expressing PRO polypeptides, for modulating	Db	1231 TCTACCAACGAGATCAGAGTGACAGAACCTGGAGGTGTCGACCCCTCTGGC 1290
CC	biological activities of cells expressing PRO polypeptides, and for for	QY	1143 ATGCCACTCTACAGCCCTCCATGAGGATGGAGGCTGGCCCATGGAGAGC 1202
CC	identifying agonists or antagonists. The PRO polypeptides are useful for	Db	1291 ATGCCACTCTACAGCCCTCCATGAGGATGGAGGCTGGCCCATGGAGAGC 1350
CC	for stimulating the release of tumour necrosis factor (TNF)-alpha from	QY	1203 TCGCTGAGGCCCTGGAGATGGACAGAACCTGGAGGTGTCGACCCCTCTGGC 1362
CC	chondrocytes, and detecting the presence of tumours. The polynucleotide	Db	1351 TGCTGAGGCCCTGGAGATGGACAGAACCTGGAGGTGTCGACCCCTCTGGC 1410
CC	sequences encoding PRO polypeptides are useful as hybridisation probes,	QY	1263 ACACCAACGCCCTCATGGAGGTGGAGGACAGAACCTGGCCCATGGAGAGC 1322
CC	in chromosome and gene mapping, in the generation of antisense RNA and	Db	1411 AACACCAAACGCCCTCATGGAGGTGGAGGACAGAACCTGGCCCATGGAGAGC 1470
CC	DNA, in the preparation of PRO polypeptides for generating transgenic	QY	1323 GTCATCAGAGGAGCCCTGAGGACTCTTGAGGAACTGGGAGACGTCAGAG 1382
CC	animals or knockout animals, for the genetic analysis of individuals with	Db	1471 GTCATCAGAGGAGCCCTGAGGACTCTTGAGGAACTGGGAGACGTCAGAG 1530
CC	genetic disorders, and in gene therapy. AC03603-ACA0877 represents cDNAs		
CC	encoding the human PRO polypeptides of the invention. Note: The sequence		
CC	data for this patent was obtained in electronic format directly from the		
CC	USPRO web site at seqdata.uspto.gov/psipdbentry.html		
XX	Sequence 2290 BP; 537 A; 692 C; 658 G; 393 T; 0 U; 0 Other;		
QY	Query Match 98.1%; Score 2132.6; DB 7; Length 2290;		
Db	Best Local Similarity 99.8%; Pred No. 0; Mismatches 2135; Conservative 0; Mismatches 4; Indels 0; Gaps 0;		
QY	3 AAATAGGCGCTGGGACGCCCTGGAGAACCCAAAGCCCTGGACCTGGCGCTG 62		
Db	151 AAATAGGCGCTGGGACGCCCTGGAGAACCCAAAGCCCTGGACCTGGCGCTG 210		
QY	63 GCACTGAGGCGCTGAGCTACTGTGGGAAGAAGGTGGAGGAGCCCGCAGG 122		
Db	211 GCACCTGGAGGCGCTGAGCTATGTGGGAAGAAGGTGGAGGAGCCCGCAGG 270		
QY	123 ACCCTGGCCAGCCCTGGCCACAGCTCTGGGGAGCCCTGGAGGAGCAGTG 182		
Db	271 ACCCTGGCCAGCCCTGGCCACAGCTCTGGGGAGCCCTGGAGGAGCAGTG 330		
QY	183 GAGCCAGTGGAGGCGCTGGAGGAGCTGGAGGAGCCCTGGAGGAGCCCTCCAG 242		
Db	331 GAGCCAGTGGAGGAGCTGGAGGAGCCCTGGAGGAGCCCTGGAGGAGCCCTCCAG 390		
QY	243 AGGCATGGAGGAGCTGGAGGAGCCCTGGAGGAGCCCTGGAGGAGCCCTCCAG 302		
Db	391 AGGCATGGAGGAGCTGGAGGAGCCCTGGAGGAGCCCTGGAGGAGCCCTCCAG 450		

Db	1471	GTCATCCAGACACGCCCTGGATGGCTCTGTAACTCTTCAGAACTGGGAGGCTAACAG	1530	KW	dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation;
QY	1383	CAAGGGTTGGAAACTTGAAGGGAACTGGCTGGGAAACATTATGGC	1442	KW	chondrocyte redifferentiation; sports injury; arthritis; gene; ss.
Db	1531	CAAGGGTTGGAAACTTGAAGGGAACTGGCTGGGAAACATTATGGC	1590	XX	
QY	1443	ACGAACCAAGGAACTAACAACTCTGGCATGGAGGCTGAGCGAATTTAGCTG	1502	OS	Homo sapiens.
Db	1591	ACGAACCAAGGAACTAACAACTCTGGCATGGAGGCTGAGCGAATTTAGCTG	1650	PN	US2003017563-A1.
QY	1503	TITGCGAAATGGCCAGTTGGCTTGAGAGGCTGAGCGAATTTAGCTG	1582	PD	23-JAN-2003.
Db	1651	TITGCGAAATGGCCAGTTGGCTTGAGAGGCTGAGCGAATTTAGCTG	1710	XX	
QY	1563	GGGGCTTACCACTGGCATGGCTGGGTTGACTCTTACGGCAAGTC	1652	PR	07-MAY-2002; 2002US-0014088.
Db	1711	GGGGCTTACCACTGGCATGGCTGGGTTGACTCTTACGGCAAGTC	1672	XX	
QY	1623	ACCTGGACAGAGATCTGATGTCACAGGAACTGTGGCAACTAC	1682	PR	31-MAR-1997; 97MO-US005230.
Db	1771	ACCTGGACAGAGATCTGATGTCACAGGAACTGTGGCAACTAC	1770	PR	12-JUN-1998; 98MO-US012456.
QY	1743	TACCGGAGCCCTACCGAGGGACTCTGGCTGAGTTCGAGGAGGC	1820	PR	14-JUL-1998; 98MO-US014552.
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QY	1683	TCTGGTATAAACCCCTGTGCCACTCAACCTCAACGGGGTGT	1742	PR	10-SEP-1998; 98MO-US018834.
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QY	1743	TACCGGAGCCCTACCGAGGGACTCTGGCTGAGTTCGAGGAGGC	1820	PR	14-SEP-1998; 98MO-US019034.
Db	1891	TACCGGAGCCCTACCGAGGGACTCTGGCTGAGTTCGAGGAGGC	1830	PR	14-SEP-1998; 98MO-US019177.
QY	1803	CCTAACGAACTGTGTGATGATCCACCGAACCTTCAAGCCAGTC	1862	PR	16-SEP-1998; 98MO-US019310.
Db	1951	CCTAACGAACTGTGTGATGATCCACCGAACCTTCACTAACCGTC	2010	PR	17-SEP-1998; 98MO-US019417.
QY	1863	CCCTCTGACTCTCGTGGCATGGAGGCCACCTGTACCTGGCAC	1922	PR	07-OCT-1998; 98MO-US021141.
Db	2011	CCCTCTGACTCTCGTGGCATGGAGGCCACCTGTACCTGGCAC	2070	PR	29-OCT-1998; 98MO-US022931.
QY	1923	AAAGAACACTCTCACCACTGTCATGGATGATGGCTGAGCTG	1982	PR	10-MAR-1999; 98MO-US022932.
Db	2071	AAAGAACACTCTCACCACTGTCATGGATGATGGCTGAGCTG	2130	PR	20-APR-1999; 98MO-US023085.
QY	1983	TTCGGAGTCACTGCGGGATGATGGCTGAGCTGAGCTG	2042	PR	01-DEC-1998; 98MO-US023108.
Db	2131	TTCGGAGTCACTGCGGGATGATGGCTGAGCTGAGCTG	2190	PR	02-JUN-1999; 98MO-US000106.
QY	2043	TACTTCCTTACACAGACGCCCTCATGTCAGGAGGACATACAGAA	2102	PR	05-JAN-1999; 98MO-US0020528.
Db	2191	TACTTCCTTACACAGACGCCCTCATGTCAGGAGGACATACAGAA	2250	PR	10-MAR-1999; 98MO-US0020510.
QY	2103	CCTCTCTTAAATAATTAGTCTTACATAAACA	2141	PR	20-APR-1999; 98MO-US010763.
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AC				PR	15-SEP-1999; 98MO-US021547.
DT				PR	05-OCT-1999; 98MO-US023039.
DE				PR	29-NOV-1999; 98MO-US028214.
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QY				PR	01-DEC-1999; 98MO-US028409.
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QY				PR	02-DEC-1999; 98MO-US02851.
Db				PR	02-DEC-1999; 98MO-US028554.
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QY				PR	16-DEC-1999; 98MO-US030911.
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QY				PR	20-DEC-1999; 98MO-US030999.
Db				PR	22-DEC-1999; 98MO-US030720.
QY				PR	30-DEC-1999; 98MO-US031243.
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QY				PR	05-JAN-2000; 2000MO-US000229.
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XX				PR	06-JAN-2000; 2000MO-US000376.
AC				PR	11-FEB-2000; 2000MO-US003555.
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DB				PR	18-FEB-2000; 2000MO-US004342.
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Db				PR	15-MAR-2000; 2000MO-US004414.
QY				PR	24-FEB-2000; 2000MO-US004414.
Db				PR	24-FEB-2000; 2000MO-US005014.
QY				PR	21-MAR-2000; 2000MO-US007532.
Db				PR	30-MAR-2000; 2000MO-US008439.
QY				PR	17-MAY-2000; 2000MO-US013705.
Db				PR	22-MAY-2000; 2000MO-US014042.
QY				PR	30-MAY-2000; 2000MO-US1441.
Db				PR	02-JUN-2000; 2000MO-US015264.
QY				PR	
Human; PRO: hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF stimulation; endothelial cell growth inhibitor; T-lymphocyte stimulation; retinal neurons cell survival; rod photoreceptor cell survival; retinal disorder; reinitis pigmentosa; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease;					

Db 991 |||||||CTGGAGAACAGGATCTGAACTGACAGAACAGCCACACTCTGCAGCTGCCAACAGA 1050
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 Db 1051 GACCTGGAGCACAAGTACCAACGACACCTGGCCACACTGGCCACACCAATCAGAGATCATC 1110
 Qy 963 CGCGAGCTTGGGACACTCCAGAGGGTCCTGGGAGCCGTCGCCCCAGCACCC 1122
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 Qy 1023 CCCGCGCCGGGGCTACACACCCACTACACCGATCATCACCAGATC 1082
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 Qy 1083 TCTACCAACGGATCCAGAGTGACCGAGACCTGAGGTGCTGCAACCCCTCTGGCACT 1142
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 Db 1651 TTGCGAGATAAGGCCAGTTGGCTGAACTGGAGGAGTATATAGCTGGCTG 1710
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 Db 1711 GGGGCTTACATGGCATGGGACTCTTACATGGCAACGGCAGAGCTCACC 1770
 Qy 1623 ACCCTGGACAGAGATGTGTCACACGGGAACCTGGCCACCTACAGGGAGGC 1682
 Db 1771 ACCCTGGACAGAGATGTGTCACACGGGAACCTGGCCACCTACAGGGAGGC 1830
 Qy 1743 TACCGGAGGCCCTACAGGGAGCTACTGGTGTGAGTCCAGGGAGCTCTACCA 1802
 Db 1891 TACCGGAGGCCCTACAGGGAGCTACTGGTGTGAGTCCAGGGAGCTCTACCA 1950
 Qy 1803 CTCAAGAAAGGGTGTGAGTCCAGGGAGCTACAGGGGTCTGTGAGTCCAGGGAGCT 1742
 Db 1951 CTCAAGAAAGGGTGTGAGTCCAGGGAGCTACAGGGGTCTGTGAGTCCAGGGAGCT 1890
 Qy 1863 CCTCTCTGACCTCTGGGATTCAGGGACCCACCTTCCACTAGGCAGCTCC 1862
 Db 2011 CCCTCTGACCTCTGGGATTCAGGGACCCACCTTCCACTAGGCAGCTCC 2070
 Qy 1923 AAAGAACAACTTACCACTGATCTGGCTGGGAGGAGGAGCTGGATTGT 1982

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 Job time : 874 secs

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 Qy 1983 TTCCGAAGTCACTGCGAGGGATGAGGACTGATGATGATGGATGGTTTCGTGCTCC 2042
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 Qy 2043 TACTTCCTCACACGAGACGCCCTCATGTCCTCAGGAGAGGAGTACAGACAA 2102
 Db 2191 TACTTCCTCACACGAGACGCCCTCATGTCCTCAGGAGAGTACAGACAA 2250
 Qy 2103 CTCCTCTTAATAATAATAAGTCTCACAAAGAAC 2141
 Db 2251 CTCCTCTTAATAATAATAAGTCTCACAAAGAAC 2289



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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

OM nucleic - nucleic search, using sw model
Run on: August 6, 2004, 12:27:03 ; Search time 8364 Seconds
(without alignments)
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Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

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Listing first 45 summaries

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SUMMARIES

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18	1511.6	69.6	1518	9 ED4730	ED4730 Proteins .4
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38	491.8	22.6	2066	6 E39783	E39783 Protein par.
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ALIGNMENTS

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RESULT 1
AX09013 LOCUS AX069013 DEFINITION Sequence 1 from Patent WO0102434.
ACCESSION AX069013 VERSION G1:1257833
KEYWORDS SOURCE ORGANISM Homo sapiens (human)
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
        Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.
        Friedrich.G., Hagen.G., Wick.M., Zubov.D. and Dubois-Stringfellow.N.
AUTHORS TITLE Methods for modulating angiogenesis by using the anti-angiogenic
Pred. No. is the number of results predicted by chance to have a
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JOURNAL	angiotensin-7 and polynucleotides encoding therefor										
PATENT: WO 0102434-A 1 11-JAN-2001;											
BAIER AG (DE)	FEATURES										
Location/Qualifiers	source										
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ORIGIN											
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RESULT 2
BC012368
LOCUS BC012368

DEFINITION Homo sapiens angiopoietin-like 2, mRNA (cDNA clone MGC:8889)

IMAGE:3865062, complete cds.

ACCESSION BC012368

VERSION BC012368.1 GI:15214488

KEYWORD MGC

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

REFERENCE 1 (bases 1 to 2178)
I. (bases 1 to 2178)

AUTHORS Strausberg, R.L., Feingold, E.A., Girouse, L.H., Derge, J.G.,

Klusner, R.D., Collins, F.S., Wagner, L., Stamen, C.M., Schuler, G.D.,

Allschl, S.P., Zeeberg, B., Butow, K.H., Schaefer, C.R., Bhat, N.K.,

Hokkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hieh, F.,

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Stipleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,

Scheetz, T.E., Brownstein, M.J., Ussdin, T.B., Toshiyuki, S.,

Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,

Abramson, R.D., Millahy, S.J., Bosk, S.A., McEwan, P.J.,

McFernan, K.J., Malek, J.A., Gunatilne, P.H., Richards, S.,

Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,

Villalon, D.K., Munro, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,

Fahay, J., Heitman, F., Kettman, J., Madan, A., Rodriguez, S.,

Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,

Dickson, M.C., Rodriguez, A.C., Giltnwood, J., Schmutz, J., Myers, R.M.,

Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smalius, D.E.,

Schneirch, A., Schein, J.F., Jones, S.J. and Marra, M.A.

Generation and initial analysis of more than 15,000 full-length

human and mouse cDNA sequences

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

MEDLINE 22388257

REBMED 12477932
2 (bases 1 to 2178)

REFERENCE REFSM

AUTHORS Strausberg, R.

TITLE Title Submission (15-AUG-2001) National Institutes of Health, Mammalian

JOURNAL Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,

USA

REMARK NIGC Project URL: http://mgc.nci.nih.gov

COMMENT Email: cgabbs-r@mail.nih.gov

Tissue Procurement: DCTP/DTP

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINT)

DNA Sequencing by: Baylor College of Medicine Human Genome Sequencing Center

Center code: BCM-MGSC

Web site: http://www.busc.bcm.tmc.edu/dna/

Contact: amg@bcm.tmc.edu

Guarante, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Lousegod, H.,

Kowis, C.R., Sneed, A.J., Martin, R.G., Muzy, D.M., Nanavati,

A.N., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium LNU at: http://image.lnl.gov

Series: IMAK Plate: 21 Row: k Column: 2

This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 6912235.

FEATURES Location/Qualifiers

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Matches 2162; Conservativity 0; Mismatches 9; Indels 0; Gaps 0;

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QY 123 ACCCTGCGCAGGCTGCCCGAGCTTGCGAGGCCCTCTGTGAGGAGAGGTGTGAGCAGCCCGAGG 182

DB 125 ACCCTGCGCAGGCTGCCCGAGCTTGCGAGGCCCTCTGTGAGGAGAGGTGTGAGCAGCCCGAGG 184

QY 183 GAGCCAGTGGAGGAGGCTGAGCTGAGGAGAGGTGTGAGCAGCCCGAGG 242

DB 185 GAGCCAGTGGAGGAGGCTGAGCTGAGGAGAGGTGTGAGCAGCCCGAGG 244

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REFERENCE	1	(bases 1 to 228)	
AUTHORS	Walker, M.G., Volkmar, W. and Klingler, T.M.		
TITLE	Matrix-remodeling genes		
JOURNAL	Patent: US 2002527054-A-11 27-AUG-2002;		
INCITE	PHARMACEUTICALS INC		
COMMENT	OS Homo sapiens (human)		
ORGANISM	Homo sapiens		
SOURCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;		
DEFINITION	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
ACCESSION	BD260120		
VERSION	BD260120.1 GI J33069890		
KEYWORDS	JP 2002527054-A/11.		
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LOCUS	BD260120	2288 bp	DNA
DEFINITION	Matrix-remodeling genes.		
ACCESSION	BD260120		
VERSION	BD260120.1 GI J33069890		
KEYWORDS	JP 2002527054-A/11.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	1	(bases 1 to 228)	
AUTHORS	Walker, M.G., Volkmar, W. and Klingler, T.M.		
TITLE	Matrix-remodeling genes		
JOURNAL	Patent: US 2002527054-A-11 27-AUG-2002;		
INCITE	PHARMACEUTICALS INC		
COMMENT	OS Homo sapiens (human)		
ORGANISM	Homo sapiens		
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ACCESSION	PP 06-OCT-1999 JP 2000575891		
VERSION	PR 09-OCT-1999 US 09/162829		
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REFERENCE	C12N15/09, A61K38/00, A61K38/28, A61K38/46, A61K48/00, A61P1/04, PC		
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Matches	2154; Conservative 0; Mismatches 13; Indels 0; Gaps 0;	Db	913	CTGGAGACAGATCTGACAGACATCATCCGCAAGCGGACAACCGAGTCTCCAG
Qy	3 AAATAGGGTCTGGGAGCGCTAGGGTGAACCCCAAGCCCAGCTGGCGAGCGTG	Qy	903	GTACCTGGAGCAAGTACACGACCTGGCCAACCTGGCCACACTGGCCCACACCAATCGAGATC
Qy	73 AAATAGGGTCTGGGAGCGCTAGGGTGAACCCCAAGCCCAGCTGGCGAGCGTG	Qy	903	GTACCTGGAGCAAGTACACGACCTGGCCAACCTGGCCCACACCAATCGAGATC
Db	123 ACCCTGGCAGCCCTGCGGAGCGCTCGCCGAGCCCTCTGAGGGAGACCCCTGACCTGGCGAGCGTG	Qy	903	GTACCTGGAGCAAGTACACGACCTGGCCAACCTGGCCCACACCAATCGAGATC
Qy	63 GCACTGAGCCAGCGCTGAGCTACTGTGAGGGAGAAGGAAGTTGAGCAGCCCTGCGAGCGTG	Qy	903	GTACCTGGAGCAAGTACACGACCTGGCCAACCTGGCCCACACCAATCGAGATC
Qy	193 ACCCTGGCAGCCCTGCGGAGCGCTCGCCAGCTCTGCCGGACCCCTGAGGGAGACCCCTGACCTGGCGAGCGTG	Qy	903	GTACCTGGAGCAAGTACACGACCTGGCCAACCTGGCCCACACCAATCGAGATC
Db	133 GCACGTAGCCAGCGCTGAGCTACTGTGAGGGAGAAGGAAGTTGAGCAGCCCTGCGAGCGTG	Qy	903	GTACCTGGAGCAAGTACACGACCTGGCCAACCTGGCCCACACCAATCGAGATC
Qy	183 GACCCAGTAGGGAGGGTGTGAGCACACGGGCTGCAATCAGAACCCCTCCAG	Qy	1033	GGCAGCTGGAGGAGACTGCGAGGGGCTCCGGCCAGGCCCCCTCCAGGCCACCC
Db	253 GAGCCAGTGAGGGGCTGCTGGCAGCCACGGCCCTGCACTCAGAACCCCTCCAG	Qy	1033	GGCAGCTGGAGGAGACTGCGAGGGGCTCCGGCCAGGCCCCCTCCAGGCCACCC
Qy	243 AGGCATGGCAGGGCTGCGGAGCGCTGAGGGAGACCCCTGAGGGAGCCCG	Qy	1033	GGCAGCTGGAGGAGACTGCGAGGGGCTCCGGCCAGGCCCCCTCCAGGCCACCC
Db	313 AGGCATGGCAGGGCTGCGGAGCGCTGAGGGAGACCCCTGAGGGAGCCCG	Qy	1033	GGCAGCTGGAGGAGACTGCGAGGGGCTCCGGCCAGGCCCCCTCCAGGCCACCC
Qy	303 AGCCAGGGAGGGAGGGACTGCTGATGATTCTTACAAAGATAACCACATT	Qy	1033	GGCAGCTGGAGGAGACTGCGAGGGGCTCCGGCCAGGCCCCCTCCAGGCCACCC
Db	373 AGCCAGGGAGGGAGGGACTGCTGATGATTCTTACAAAGATAACCACATT	Qy	1033	GGCAGCTGGAGGAGACTGCGAGGGGCTCCGGCCAGGCCCCCTCCAGGCCACCC
Qy	363 GCAAGAGCATATGGCCATGTGAGCTGAGCTGAGCTGAGCTGGCGCATG	Qy	1033	GGCAGCTGGAGGAGACTGCGAGGGGCTCCGGCCAGGCCCCCTCCAGGCCACCC
Db	433 GCAAGAGCATATGGCCATGTGAGCTGAGCTGAGCTGAGCTGGCGCATG	Qy	1033	GGCAGCTGGAGGAGACTGCGAGGGGCTCCGGCCAGGCCCCCTCCAGGCCACCC
Qy	423 GGAGCTGTGCAAGCCAGGGAGGGTTGAGGGACTGAGGGGGCTGCCAGAG	Qy	1033	GGCAGCTGGAGGAGACTGCGAGGGGCTCCGGCCAGGCCCCCTCCAGGCCACCC
Db	493 GGAGCTGTGCAAGCCAGGGAGGGTTGAGGGACTGAGGGGGCTGCCAGAG	Qy	1033	GGCAGCTGGAGGAGACTGCGAGGGGCTCCGGCCAGGCCCCCTCCAGGCCACCC
Qy	483 TTCTTTACTAACAGGATCACAGGGGGGGTCCAGAACAGTCACCTACCC	Qy	1563	GGGCCTTACCRTGCAATGGGGTACTCTTTATGGAACAGCGAACAGTCACC
Db	553 TTCTTACTAACAGGATCACAGGGGGGGTCCAGAACAGTCACCTACCC	Qy	1563	GGGCCTTACCRTGCAATGGGGTACTCTTTATGGAACAGCGAACAGTCACC
Db	543 TTCTTACTAACAGGATCACAGGGGGTCCAGAACAGTCACCTACCC	Qy	1622	GGGCCTTACCRTGCAATGGGGTACTCTTTATGGAACAGCGAACAGTCACC
Db	613 TTCTTACTAACAGGATCACAGGGGGTCCAGAACAGTCACCTACCC	Qy	1622	GGGCCTTACCRTGCAATGGGGTACTCTTTATGGAACAGCGAACAGTCACC
Qy	603 TTCTTACTAACAGGATCACAGGGGGGGTCCAGAACAGTCACCTACCC	Qy	1622	GGGCCTTACCRTGCAATGGGGTACTCTTTATGGAACAGCGAACAGTCACC
Db	673 TTCTTACTAACAGGATCACAGGGGGGGTCCAGAACAGTCACCTACCC	Qy	1622	GGGCCTTACCRTGCAATGGGGTACTCTTTATGGAACAGCGAACAGTCACC
Db	663 AAGGAAAGGGGAGATCGAGCGCTGAGGGAGCTGAGCTGAGCTGAGCTG	Qy	1622	GGGCCTTACCRTGCAATGGGGTACTCTTTATGGAACAGCGAACAGTCACC
Db	733 AAGGAAAGGGGAGATCGAGCGCTGAGGGAGCTGAGCTGAGCTGAGCTG	Qy	1622	GGGCCTTACCRTGCAATGGGGTACTCTTTATGGAACAGCGAACAGTCACC
Qy	723 AAGGAAAGGGGAGATCGAGCGCTGAGGGAGCTGAGCTGAGCTGAGCTG	Qy	1622	GGGCCTTACCRTGCAATGGGGTACTCTTTATGGAACAGCGAACAGTCACC
Db	1813 TACCGAGCCGCTACAGGGAGCTACTGGCTGAGTTCCGGAGGAGCTTACTCA	Db	1813	TACCGAGCCGCTACAGGGAGCTACTGGCTGAGTTCCGGAGGAGCTTACTCA
Db	1803 CTCAAGAAAGGGTGTGAGTATCGGACCGAACCCCAACACTTCACTAGCCAGCTC	Db	1803	CTCAAGAAAGGGTGTGAGTATCGGACCGAACCCCAACACTTCACTAGCCAGCTC
Db	1873 CTCAAGAAAGGGTGTGAGTATCGGACCGAACCCCAACACTTCACTAGCCAGCTC	Db	1873	CTCAAGAAAGGGTGTGAGTATCGGACCGAACCCCAACACTTCACTAGCCAGCTC

		TITLE	JOURNAL	HUMAN
		COMMENT	PATENT	NUCLEIC ACID SEQUENCE ORIGINATING IN NORMAL UTERINE TISSUE
Db	1394	GTCATCCAGAGACGCCCTGGATGGCTCTGTTACTTCTCAGGAACGGAGCTACAG	1453	PATENT: JP 2002512017-A 66 23-APR-2002;
QY	1383	CAAGGGTTGGAACTATGGGGCAATACTGGCTGGGGCTGGAGACATTACTGGCTG	1442	METACEN GESELLSCHAFT FUER GENOM FORSCHUNG MBH
Db	1454	CAAGGGTTGGAACTATGGATGGAGATACTGGCTGGGGCTGGAGACATTACTGGTG	1513	OS Homo sapiens (human)
QY	1443	ACGACCAAGCAACTACAACACTCTGGGACATGGAGACCTGGCCGCSAAAGTC	1502	JP 2002512017-A/66
Db	1514	ACGACCAAGCAACTACAACACTCTGGGACATGGAGACCTGGCCGCSAAAGTC	1573	PR 15-APR-1999 JP 2000544691
QY	1503	TITGGAGAATAGCCAGTTCCGGCTGGAACTCTGGAGAGGATATAAGCTGGCTG	1562	PI THOMAS SPECHT, BERND HINZMANN, ARMIN SCHMITT, CHRISTIAN PILANSKY,
Db	1574	TITGGAGAATAGCCAGTTCCGGCTGGAACTCTGGAGAGGATATAAGCTGGCTG	1633	PI EDGAR DAHL,
QY	1563	GGGGCTACATGGCATGGGACTCTGGTGTACTCTTACATGGCACAAAGGCAGACTTC	1622	PI ANDRE ROSENTHAL,
Db	1634	GGGGCTACATGGCATGGGACTCTGGTGTACTCTTACATGGCACAAAGGCAGACTTC	1693	PC C12N15/09, A61K38/00, A61P35/00, C07K14/47, C07K16/18,
QY	1623	ACCCCTGAGAGAGATCATGATGTTGTACACAGGAACCTGGCCACTACAGAGGAGC	1682	PC C12N1/21, C12N5/00, C12P21/08, C12Q1/68, G01N3/68, C12N15/00, PC
Db	1694	ACCTGAGAGAGATCATGATGTTGTACACAGGAACCTGGCCACTACAGAGGAGC	1753	A61K37/02;
QY	1683	TGGTGTATTAAGCCGCTTACAGGCTGAGCTTACAGGGGTCTTACAGGGAGC	1742	PC C12N5/00
Db	1754	TGGTGTATTAAGCCGCTTACAGGCTGAGCTTACAGGGGTCTTACCGGGGGCAT	1813	CC Human nucleic acid sequence originating in normal uterine
QY	1743	TACGGAGCCCTACAGGGGGACTACTGGGTGAGTCCGGAGGGCTTACCA	1802	CC tissue
Db	1814	TACCGAGCCCTACAGGGGGACTACTGGGTGAGTCCGGAGGGCTTACCA	1873	FT Key source Location/Qualifiers
QY	1803	CTCAAGAAGTGGTGTAGTGTACCCGACCCACCTCCACTAACGCTCC	1862	FT source 1. .3541 /organism='Homo sapiens'
Db	1874	CTCAAGAAGTGGTGTAGTGTACCCGACCCACCTCCACTAACGCTCC	1933	/mol_type='genomic DNA'
QY	1863	CCCTCTGTGACCTCTGTGGCAATTGCGGAGGCCCCACCTGTGACCTG	1922	/db_xref='taxon:9606'
Db	1934	CCCTCTGTGACCTCTGTGGCAATTGCGGAGGCCCCACCTGTGACCTG	1993	ORIGIN
QY	1923	AAAGAACACTCTTACCAAGTCACTCTGGGCTGAGGTGTGGTGTGTGT	1982	Query Match
Db	1994	AAAGAACACTCTTACCAAGTCACTCTGGGCTGAGGTGTGGTGTGTGT	2053	Best Local Similarity 99.3%; Score 2133.2; DB 6; Length 3541;
QY	1983	TTCGGAACTCTGAGGGATGTGATGAGCTGGTTCTGCGCTCC	2042	Matches 2152; Conservative 0; Mismatches 14; Indels 1; Gaps 1;
Db	2054	TTCGGAACTCTGAGGGATGTGATGAGCTGGTTCTGCGCTCC	2113	Db 75 AAATGAGCTGCGGAGGGCTGAGATGGACCCAAAGCCCTGACCTGGCGAGCTGG 62
QY	2043	TACTTCCTTACACAGACGCCCTCATGCTCCAGGAAGGAGCTACAGCA	2102	Db 63 GCACTGAGCAGGGCTGAGCTACTCTGAGGGAAAGAGGTGTGAGCAGCCCGAGG 122
Db	2114	TACTTCCTTACACAGACGCCCTCATGCTCCAGGAAGGAGCTACAGCA	2173	Db 135 GCACTGAGCAGGGCTGAGCTACTCTGAGGGAAAGAGGTGTGAGCAGCCCGAGG 194
QY	2103	CTCTCTCTTAAATAATTAGTCTCTACATATAAAACACACACGCAAGTAAAAAA	2162	Db 123 ACCCTGGCCAGGCCCTGGCCCAAGCCTCTGGCGAGGCCCTCTGGAGGAGGCCAGGT 182
Db	2174	CTCTCTCTTAAATAATTAGTCTCTACATATAAAACACACACGCAAGTACCTTCATA	2233	Db 195 ACCCTGGCCAGGCCCTGGCCCAAGCCTCTGGCGAGGCCCTCTGGAGGAGGCCAGG 254
QY	2163	AAAAAA 2169	Db 183 GAGCCAGCTGAGGAGGGCTGCTGGAGGCCACGGGCTGGCACTAGGAACCCCTCG 242	
Db	2234	ATATCA 2240	Db 255 GAGCCAGCTGAGGAGGGCTGCTGGAGGCCACGGGCTCTGGAGGAGGCCAGG 314	
RESULT 5			Db 243 AGCCATGACAGCTGCCCTGGCCAGGTGAAGCTGTGAGGAGGCCCG 302	
BD222237			Db 315 AGGCATGACAGCTGCCCTGGCCAGGTGAAGCTGTGAGGAGGCCCG 374	
LOCUS	BD222237	3541 bp	Db 303 AGCCAAGGAGGGAGGGAGGCTTCACTAGTCTATCAGAAGATAACCAATT 362	
DEFINITION		DNA	Db 375 AGCCAGGAGGGAGGCTTCACTAGTCTATCAGAAGATAACCAATT 434	
ACCESSION	BD222237	linear	Db 363 GCAAGACATGAGGCCCTGGCGCATCTGGGCTGGAGCTGTGCTGCTG 422	
VERSION	BD222237.1	PAT 17-JUL-2003	Db 435 GCAAGACATGAGGCCCTGGCGCATCTGGGCTGGAGCTGTGCTG 494	
KEYWORDS	2002512017-A/66		QY 423 GGACCTGTGAGGCCAGGGAGGTTTGAGGGCTCTGGAGGCCCTGGCAAGAG 482	
SOURCE	Homo sapiens (human)		Db 495 GGACCTGTGAGGCCAGGGAGGTTTGAGGGCTCTGGAGGCCCTGGCAAGAG 554	
ORGANISM			QY 483 TCACTTACCTAACAGGATACAGGAGGGCTGGAGCTGGCAAGAGGAGCTGG 542	
REFERENCE	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		Db 555 TTGTTTACCTAACAGGATACAGGAGGGCTGGAGCTGGCAAGAGGAGCTGG 614	
AUTHORS	(bases 1 to 3541), Spcht,T., Hinzmann, B., Schmitt,A., Pilarsky,C., Dahl,E. and Rosenthal,A.		QY 543 TTGTTGCCCCAGGAGGGTACGGGCTCATCTGGCAACTCCAGGAGCTGG 602	
			Db 615 TCACTTACCTAACAGGATACAGGAGGGCTGGAGCTGGCAACCATGAGCTG 674	
			QY 603 GTGCTCTGGAGACCGAGGTGCTAAGGAGGAGCTAGGCTGCTCACCAATGAGCTG 662	

db	675	GIGCTCTGGAGACCGAGTGTAGCTAGGAGGCTAGCTGCTCAACATGCTGTC	734	Db	1754	TGGTGTATAAGCCCTGTGCCCACTCAACGGGTCTGACTGAGGAGGCTCTGTC	1813	
Qy	1743	TACCGAGCTCTTACAGGAGGAGCTACTGGGTGAGTTCGAGGAGCTTACTCA	1802	Qy	1743	TACCGAGCTCTTACAGGAGGAGCTACTGGGTGAGTTCGAGGAGCTTACTCA	1802	
db	653	AACGAGGCGCAGATGAGAGCGCTCAGAGCTGAGCTGAGTGGAGGCTTACTCA	722	Db	1814	TACCGAGCTTACAGGAGGAGCTACTGGGTGAGTTCGAGGAGCTTACTCA	1813	
Qy	735	AACGAGAAGGGCGATCGAGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	794	Qy	1803	CTCAAGAACTGTGATGTGATCGAGCTGAGCTGAGCTGAGCTGAGCTG	1862	
db	723	ACCGAGGTGAGCTGCTGGCAAGGAGGCCAACATGAATCTGGGTGAGGCT	782	Db	1874	CTCAAGAACTGTGATGTGATCGAGCTGAGCTGAGCTGAGCTGAGCTG	1933	
Qy	795	ACCGAGGTGAGCTGCTGGCAAGGAGGCCAACATGAATCTGGGTGAGGCT	854	Qy	1863	CCCTCTGACTCTGTGCCCATGCCAGGCCACCTTGAGCTGAGCTGAGCTG	1922	
db	783	TACATGAGCTCTGCAAGAGATCTCGAACGGGAAAGGGGAGCTGGAGCTTC	842	Db	1934	CCCTCTGACTCTGTGCCCATGCCAGGCCACCTTGAGCTGAGCTGAGCTG	1993	
Qy	855	TACATGAGCTCTGCAAGAGATCTCGAACGGGAAAGGGGAGCTGGAGCTTC	914	Qy	1923	AAAGAACACTCTCACAGGTTATCTGAGCTGAGCTGAGCTGAGCTG	1982	
db	843	CTCGAGAACAGGATCTCGAACCGAACGGCACATGAGCTGAGCTGAGCTG	902	Db	1994	AAAGAACACTCTCACAGGTTATCTGAGCTGAGCTGAGCTGAGCTG	2053	
Qy	915	CTCGAGAACAGGATCTCGAACCGAACGGCACATGAGCTGAGCTGAGCTG	974	Qy	1983	TTCCGAGTCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	2042	
db	903	GACCTGGAGCACAGTACAGCACAGCACCTGGCAACTTSSCCACACCRAT	962	Db	2054	TTCCGAGTCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	2113	
Qy	975	GACCTGGAGCACAGTACAGCACACCTGGCAACTTSSCCACACCRAT	1034	Qy	2043	TACTTCCTCACAGAGCACGCCCTCATGTCAGGAGCACCGATCTGATCT	2102	
db	963	GCCGAGCTGAGCAACTGCGAGGGTGCCAGCTGAGCTGAGCTGAGCTG	1022	Db	2114	TACTTCCTCACAGAGCACGCCCTCATGTCAGGAGCACCGATCTGATCT	2173	
Qy	1035	GCGCA-TGAGGAGACTGCGAGGGTGCCAGGCTGCTCGGCCAGCCAGHACCC	1093	Db	2103	CTCTTCCTTAAATAATTAGCTCTCATATAAACACAACTGCAAGTA	2162	
db	1023	CCGCTGCCCCCGCCGGTCTACCAACACCACCTAACACGCTCATGACGATC	1082	Qy	2174	CTCTTCCTTAAATAATTAGCTCTCATATAAACACAACTGCAAGTA	2233	
Qy	1094	CCGCTGCCCCCGCCGGTCTACCAACACCACCTAACACGCTCATGACGATC	1153	Db	2163	AAAAAA 2169		
db	1083	TCTTACCAAGAGATCAGAGTGAACGGAGACTGAGGTTGCTCCACCCCTG	1142	Qy	2234	ATATACA 2240		
Qy	1154	TCTTACCAAGAGATCAGAGTGAACGGAGACTGAGGTTGCTCCACCCCTG	1213					
db	1143	ATGCCCACTCTACCCASCTCCATCTTCACCGAACAGCCCTGGGCCATGAGAC	1202					
Qy	1214	ATGCCCACTCTACCCASCTCCATCTTCACCGAACAGCCCTGGGCCATGAGAC	1273					
db	1203	TGCTCTGAGGCCCTGAGGATGCCAGAACAGCTGCTACTTGTAAGCCGAG	1262					
Qy	1274	TGCTCTGAGGCCCTGAGGATGCCAGAACAGCTGCTACTTGTAAGCCGAG	1333					
db	1263	AAACACACCCTCTGAGGATGCCAGAACAGCACGCCGGGGCTGAGC	1322					
Qy	1334	AAACACACCCTCTGAGGATGCCAGAACAGCACGCCGGGGCTGAGC	1393					
db	1323	GTATCCGAGAGGCCCTGAGCTGCTCTTAACCTCTTCAAGACTGGAGACAG	1382					
Qy	1394	GTATCCGAGAGGCCCTGAGCTGCTCTTCAAGACTGGAGACAG	1453					
db	1383	CAAGGGTTGGAGACATGACGCCATACTGGCTGGCTGGAGACATTACTG	1442					
Qy	1454	CAAGGGTTGGAGACATGACGCCATACTGGCTGGCTGGAGACATTACTG	1513					
db	1443	ACCAACCAAGGCCACTAACACTCTGGGACATGGGAGCTGGCTGGCGCAAGTC	1502					
Qy	1514	ACGACCCAGGCACTAACACTCTGGGACATGGGAGCTGGCTGGCGCAAGTC	1573					
db	1503	TTCGAGATAAGCCAGTTCGGCTCGAACCTGAGGATATAAGCTGGCTG	1562					
Qy	1574	TTCGAGATAAGCCAGTTCGGCTCGAACCTGAGGATATAAGCTGGCTG	1633					
db	1563	GGCGCTTACCATGCGCTGAGCTGCTGGCTGAGCTGAGCTGAGCTG	1622					
Qy	1634	GGCGCTTACCATGCGCTGAGCTGCTGGCTGAGCTGAGCTGAGCTG	1693					
db	1623	ACCTGGAGAGATCATGATCTACAGGAATGTCGCCACTACAGGAAGGG	1682					
Qy	1694	ACCTGGAGAGATCATGATCTACAGGAATGTCGCCACTACAGGAAGGG	1753					
db	1683	TGGTGTATAAGCCCTGTGCCACTCAACCTCAAGGGGTGGTACCGGGGGCCAT	1742					
Qy								
RESULT 6								
AR081094		AR081094		AR081094		AR081094		
Locus		DEFINITION		DEFINITION		DEFINITION		
Qy		SEQUENCE	1	SEQUENCE	1	SEQUENCE	1	
db		ACCESSION	US 5972338	ACCESSION	US 5972338	ACCESSION	US 5972338	
Qy		VERSION	1	VERSION	1	VERSION	1	
db		KEYWORDS	GI:10007822	KEYWORDS	GI:10007822	KEYWORDS	GI:10007822	
Qy		SOURCE		SOURCE		SOURCE		
db		ORGANISM	Unknown.	ORGANISM	Unknown.	ORGANISM	Unknown.	
Qy		UNCLASSIFIED	Unclassified.	UNCLASSIFIED	Unclassified.	UNCLASSIFIED	Unclassified.	
db		REFERENCE	(bases 1 to 2290)	REFERENCE	(bases 1 to 2290)	REFERENCE	(bases 1 to 2290)	
Qy		AUTHORS	Godowski, P. J. and Gurney, A. L.	AUTHORS	Godowski, P. J. and Gurney, A. L.	AUTHORS	Godowski, P. J. and Gurney, A. L.	
db		TITLE	Title ligands homologues	TITLE	Title ligands homologues	TITLE	Title ligands homologues	
Qy		JOURNAL	Patent: US 5972338-A 1 26-OCT-1999;	JOURNAL	Patent: US 5972338-A 1 26-OCT-1999;	JOURNAL	Patent: US 5972338-A 1 26-OCT-1999;	
db		FEATURES	Location/Qualifiers	FEATURES	Location/Qualifiers	FEATURES	Location/Qualifiers	
Qy		Source	1..2290	Source	1..2290	Source	1..2290	
db		ORIGIN	/organism="unknown"	ORIGIN	/organism="unknown"	ORIGIN	/organism="unassigned DNA"	
Qy		Query Match	99.1%	Query Match	99.1%	Query Match	99.1%	
db		Best Local Similarity	99.8%	Best Local Similarity	99.8%	Best Local Similarity	99.8%	
Qy		Matches	2135;	Matches	2135;	Matches	2135;	
db		Conservative	0;	Mismatches	4;	Indels	0;	
Qy		0;	Mismatches	4;	Indels	0;	Gaps	0;
db								
Qy		3	AAATAGGGCTGGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTG	62	3	AAATAGGGCTGGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTG	62	
db		151	AAATAGGGCTGGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTG	210	151	AAATAGGGCTGGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTG	210	
Qy		63	GCACCTGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	122	63	GCACCTGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	122	
db		211	GCACCTGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	270	211	GCACCTGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	270	
Qy		123	ACCCCTGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	182	123	ACCCCTGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	182	
db		271	ACCCCTGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	330	271	ACCCCTGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	330	
Qy		183	GACCCAGTGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	242	183	GACCCAGTGGAGGCCCTGGGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG	242	

Db	331	GAGGCCAGTGGGAGGGCTCTGGAGCCACCGGCTCAACTCAGGAACCCCTCAG	390	QY	1323	GTGATCCAGAGAGCCCTGGATGGCTCTTTAATTCCTCAGAACTGGAGAGCTACAAG	1382
QY	243	AGGCCATGGAGGGCTGGCCCTAACGGGAGGGTGAAGATGTGGAGGCCCCGG	302	Db	1471	GTCATCCAGAGAGCCCTGGATGGCTCTTTAATTCCTCAGAACTGGAGAGCTACAAG	1530
Db	391	AGGCCATGGAGGGCTGGCCCTAACGGGAGGGTGAAGATGTGGAGGCCCCGG	450	QY	1383	CAAGGGTTGGGACATGACGGGAATACTGGCTGGGGCTGGAGAACATTACTGGCTG	1442
QY	303	AGCCPAGAGGAGGAGGAGGCTTCATAGATTCTTACAAAGATAACACCAATT	362	Db	1531	CAAGGGTTGGGACATGACGGGAATACTGGCTGGAGAACATTACTGGCTG	1590
Db	451	AGCCPAGAGGAGGAGGAGGCTTCATAGATTCTTACAAAGATAACACCAATT	310	QY	1443	ACCACCCAGGERACTCAAACCTCTGGTGGACATGGCTGGACTGTGTGCTCCATG	1502
QY	363	GCAAGACCATGAGGCACCTGTGGTACATGCTGGCTGGACTGTGTGCTCCATG	422	Db	1591	ACGRACCAAGGERACTCAAACCTCTGGTGGACATGGCTGGACTGTGTGCTCCATG	1650
Db	511	GCAAGACCATGAGGCACCTGTGGTACATGCTGGTGGCTGACTGTGTGCTCCATG	570	QY	1503	TTCGAGATAGCCAGTTCCGCTTGAGACCTGAGAGGGCTGGAGAACATTACTGGCTG	1562
QY	423	GAGCIGTGGAGGCAGGGAGGACGTTGGAGGCACTGGAGGGCTGGAGAG	482	Db	1651	TTCGAGATAGCCAGTTCCGCTTGAGACCTGAGAGGGCTGGAGAACATTACTGGCTG	1710
Db	571	TTCATTACCTAACAGGTACAGGAAAGGGGGGGGAGTCCAGGAACAGTCCAC	630	QY	1563	GGGGCTTCCATGGCAATGGGGTGACTCTTACAGCACACGGGAGTATTAACTGTGCTG	1622
QY	483	TTCATTACCTAACAGGTACAGGAAAGGGGGGGGAGTCCAGGAACAGTCCAC	542	Db	1711	GGCGCTACCATGGCAATGGCTGGTGAATCTTACAGCACACGGGAGTATTAACTGTGCTG	1770
Db	631	TTCATTACCTAACAGGTACAGGAAAGGGGGGGGAGTCCAGGAACAGTCCAC	690	QY	1623	ACCTGGACAGACATCATGATGCTAACAGAAACTGGCCACATACAGAGGGAGG	1682
QY	543	TTCATTACCTAACAGGTACAGGAAAGGGGGGGGAGTCCAGGAACAGTCCAC	602	Db	1771	ACCTGGACAGACATCATGATGCTAACAGAAACTGGCCACATACAGAGGGAGG	1830
Db	691	TTCATTACCTAACAGGTACAGGAAAGGGGGGGGAGTCCAGGAACAGTCCAC	750	QY	1683	TGGTGTATAACCCCTGGCCAACTCAACTCAACCTGGTGTGGGGGACCAT	1742
QY	603	TGGTGTCTGGAGAACGGAGCTAACAGCAGGAGTAGAGGTGCTAACATGAGTGT	662	Db	1831	TGGTGTATAACCCCTGGCCAACTCAACTCAACCTGGTGTGGGGGACCAT	1890
Db	751	TGGTGTCTGGAGAACGGAGCTAACAGCAGGAGTAGAGGTGCTAACATGAGTGT	810	QY	1743	TACGGAGCCGTACCAAGGAGGGACTACTGGCTGAGTTGGCTGGAGGGCTTACTA	1802
QY	663	AAGCAGAAGGGCAGATCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	722	Db	1891	TACGGAGCCGTACCAAGGAGGGACTACTGGCTGAGTTGGAGGGCTTACTA	1950
Db	811	AAGCAGAAGGGCAGATCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	870	QY	1803	CTCAGAAGTGGTGTGATGTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1852
QY	723	AGCAGGAGGTGAACCTGTGCGGAAGGAGGAGGAGGAGGAGGAGGAGGAGG	782	Db	1951	CTCAGAAGAAGTGGTGTGATGTCGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2010
Db	871	AGCAGGAGGTGAACCTGTGCGGAAGGAGGAGGAGGAGGAGGAGGAGGAGG	930	QY	1863	CCTCTCTACCTCTGGCCCATGTGGCCACCTGGCCACAGGGTGTGGGGGAC	1922
QY	783	TACATGGAGCTCTGGAGGAGATCTGGAGGAGGAGGAGGAGGAGGAGGAGG	842	Db	2011	CCTCTCTACCTCTGGCCCATGTGGCCACCTGGCCACAGGGTGTGGGGGAC	2070
Db	931	TACATGGAGCTCTGGAGGAGATCATCCGGAGGAGGAGGAGGAGGAGGAGG	990	QY	1983	TTCCGAGATCTCTGGCCCATGTGGCCACCTGGCCACAGGGTGTGGGGGAC	2042
QY	843	CTGGAGAACAGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	902	Db	2131	TTCCGAGATCTCTGGCCCATGTGGCCACCTGGCCACAGGGTGTGGGGGAC	2190
Db	991	CTGGAGAACAGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1050	QY	2043	TACCTCTACCTCTGGCCCATGTGGCCACCTGGCCACAGGGTGTGGGGGAC	2102
QY	783	TACATGGAGCTCTGGAGGAGATCTGGAGGAGGAGGAGGAGGAGGAGGAGG	842	Db	2191	TACCTCTACCTCTGGCCCATGTGGCCACCTGGCCACAGGGTGTGGGGGAC	2250
Db	903	CTGGAGAACAGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	962	QY	2103	CTCTTCTTAATAATAATAGTCTCATATAAAC	2141
QY	843	CTGGAGAACAGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	902	Db	2251	CTCTTCTTAATAATAATAGTCTCATATAAAC	2289
Db	1051	GACCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1110	RESULT 7			
QY	963	CGCAGACTGTGAGGAGACTGGAGGGTGTGGCCCTGGCCACGGGACCCCAC	1022	AR194809	AR194809	2290 bp	DNA
Db	1111	GCGCAGACTGTGAGGAGACTGGAGGGTGTGGCCCTGGCCACGGGACCCCAC	1170	LOCUS	AR194809	2290 bp	linear
QY	1023	CCGGCTGGCCCCCCCCGGGTATACCAACCAACCACTACACCGCATCATACAC	1082	DEFINITION	Sequence 1 from patent US 6350450.		PAT 20-APR-2002
Db	1171	CCGGCTGGCCCCCCCCGGGTATACCAACCAACCACTACACCGCATCATACAC	1230	ACCESSION	AR194809		
QY	1083	TCTTACCAACGAGATCCAGAGTGGACAGGAGGTGTGGACACCCCTCTGCCA	1142	VERSION	AR194809.1	GI: 20244246	
Db	1231	TCTTACCAACGAGATCCAGAGTGGACAGGAGGTGTGGACACCCCTCTGCCA	1290	KEYWORDS			
QY	1143	ATGCCCACTCTCACCAAGCTAACCTTCCCGAGAACGGCTGGCCCATGGAGAC	1202	SOURCE			
Db	1291	ATGCCCACTCTCACCAAGCTAACCTTCCCGAGAACGGCTGGCCCATGGAGAC	1350	ORGANISM			
QY	1203	TCTCTGAGGGCTGGAGGATGGCCAGCAACCCCTCTGCCA	1262	REFERENCE			
Db	1351	TCTCTGAGGGCTGGAGGATGGCCAGCAACCCCTCTGCCA	1410	AUTHORS			
QY	1263	ACACCAACCCCTCAAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1322	TITLE	Godowski, P.J., Gurney, A.L., Goddard, A. and Hillan, K.		
Db	1411	ACACCAACCCCTCAAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1470	FEATURES	TRB ligand homologue antibody		
					Patent: US 6350450 A	1 26-FEB-2002;	
					Location/Qualifiers		

Db	2191	TACTTCCTTACACAGACGCCCTCATGCTCAGGACAGGACATACAGACAA	2250	Db	751	GTGCTTCCTCGAGAACGGHGTGCAATAAGGAGGACTAGAGTCCTCACAAATGAGCTGCTC	810
Qy	2103	CTCTTCTTAATAATTAGTCTTACATAAACA	2141	Qy	653	AAGCAGAAGGGAGATGAGACGCCTCCAGCACTGGTAAGGTGGAGGGCGATTTG	722
Db	2251	CTCTTCTTAATAATTAGTCTTACATAAACA	2289	Db	811	AAGCAGAAGGGAGATGAGACGCCTCCAGCACTGGTAAGGTGGAGGGCGATTTG	870
RESULT 8				Qy	723	AGGAGGTGAAGTGCTCGCAGGAGGCGCAACTGAACTGGAACCTGGGAGTC	782
AR205229	AR205229	Sequence 1 from patent US 6368853.	2290 bp	Db	871	AGGGAGGTGAAGTGCTCGCAGGAGGCGCAACTGGAACCTGGGAGTC	930
LOCUS	AR205229	DEFINITION	DNA	Qy	783	TACATGCGACTCTGCAAGAGATCATCGCAAGCGGAAACAGCGTGTGAGCTCTCCAG	842
ACCESSION	AR205229	VERSION	linear	Db	931	TACATGCGACTCTGCAAGAGATCATCGCAAGCGGAAACAGCGTGTGAGCTCTCCAG	990
KEYWORDS	AR205229.1	SOURCE	PAT 20-JUN-2002	Qy	843	CTGGAGAACAGGATCTGACGAGACGCGGACATGTCAGCTGGAGCTGAGCTCCAG	902
ORGANISM	Unknown.	REFERENCE		Db	991	CTGGAGAACAGGATCTGACGAGACGCGGACATGTCAGCTGGAGCTGAGCTCCAG	1050
AUTHORS	Unclassified.	TITLE	Godowski, P.J. and Gurney, A.L.	Qy	903	GACCTGGGACAGACTCAGAACCTGGGAAAGAGGTGTGAGGAGCCCGCAG	962
JOURNAL	Patent: US 6368853-A 1 09-APR-2002;	FEATURES	1. -2290	Db	1051	GACCTGGGACAGACTCAGAACCTGGGAAAGAGGTGTGAGGAGCCCGCAG	1110
SOURCE	/organism="unassigned"	ORIGIN	/mol_type="unassigned DNA"	Qy	963	GCGAGCTTGAGGAGCACTGCGCAGAGGGTGTGAGGAGCCACTGCCCACAC	1022
Query Match	98.1%; score 2132.6;	Blast Local Similarity	99.8%; Pred. No. 0;	Db	1111	GCGAGCTTGAGGAGCACTGCGCAGAGGGTGTGAGGAGCCACTGCCCACAC	1170
Matches	2135; Conservative	Mismatches	0; Indels	Qy	1023	CCCGCTGCCGCCGCCGCTTACACACCCACCTACACCGCATATCACAGATC	1082
Qy	3	AAATGAGGCTCTGGACGCCCTGAGGATAACCCCAAGCCCTGACTGGAGCTGG	62	Db	1171	CCCGCTGCCGCCGCCGCTTACACACCCACCTACACCGCATATCACAGATC	1230
Db	151	AAATGAGGCTCTGGACGCCCTGAGGATAACCCCAAGCCCTGACTGGAGCTGG	21.0	Qy	1083	TCTACCAAGAGATCCAGAGTACCAAACCTGAGAAGTGTGCTCCACCCCTG	1142
Qy	63	GCACTGGAGGCGGTGACCCCTACTGTGAGGAAGAGGTGTGAGGAGCCCGCAG	122	Db	1231	TCTACCAAGAGATCCAGAGTACCAAACCTGAGAAGTGTGCTCCACCCCTG	1290
Db	211	GCACTGGAGGAGGCGCTGAGCTACTGTGAGGAAGAGGTGTGAGGAGCCCGCAG	270	Qy	1143	ATGCCCTCTCCACCTCCATCTCCACGAGACCTGAGGGTGTGCTCCAC	1202
Qy	123	ACCCCTGGGCCGCCCTGGCCCAAGCTCTCCCGAGCCCTTGTGAGGAGACCCAG	182	Db	1291	ATGCCCTCTCCACCTCCATCTCCACGAGACCTGAGGGTGTGCTCCAC	1350
Db	271	ACCCCTGGGCCGCCCTGGCCCAAGCTCTCCCGAGCCCTTGTGAGGAGACCCAG	330	Qy	1203	TGCCTGCGCCCTGGAGATGCCACGACCCACCTCCATCTCCAC	1262
Qy	183	GAGCCCACTGGAGGAGGAGGCTCTGGCAGGCCACCGCTTCAACTCAGGAACTCCAG	242	Db	1351	TGCCTGCGCCCTGGAGATGCCACGACCCACCTCCATCTCCAC	1410
Db	331	GAGCCCACTGGAGGAGGAGGCTCTGGCAGGCCACCGCTTCAACTCAGGAACTCCAG	390	Qy	1253	AACACCAACGCCCTCATCAGGCTGCTGAGGAGCCCGGCTG	1322
Qy	243	AGGCCATGGAGGAGGCTGCCGCTGAGCAGCCAGGCTGAGGAGCCCGCCAG	302	Db	1411	AACACCAACGCCCTCATCAGGCTGCTGAGGAGCCCGGCTG	1470
Db	391	AGGCCATGGAGGAGGCTGCCGCTGAGCAGGAGGAGGAGGAGGAGGAGGAGGAG	450	Qy	1323	GTCATCCAGAGGCCCTGATGCTGCTCTTTACTTCCTCAGGAACTGGAGAGTAC	1382
Qy	303	AGCCAGAGGAGGAGGAGGCTCTCATAGTTCTTACAAAGAATACACCAATT	362	Db	1471	GTCATCCAGAGGCCCTGATGCTGCTCTTTACTTCCTCAGGAACTGGAGAGTAC	1530
Db	451	AGCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	510	Qy	1383	CAAGGGTTGGAGACATTCAGCCGCAATACCTGCTGGCTGAGACATTACTG	1442
Qy	363	GCAAGACCATGAGGCCACTGTCGTGAGCTGAGGAGGCTGAGGAGGAGGAGGAG	422	Db	1531	CAAGGGTTGGAGACATTCAGCCGCAATACCTGCTGGCTGAGACATTACTG	1590
Db	511	GCAAGACCATGAGGCCACTGTCGTGAGCTGAGGAGGAGGAGGAGGAGGAGGAG	570	Qy	1443	ACGACCGAGGAACTTCACTCTCGTGCATGAGGAGTGTGCGGCGCAAGTC	1502
Qy	423	GAGCTGTTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	482	Db	1591	ACGACCGAGGAACTTCACTCTCGTGCATGAGGAGTGTGCGGCGCAAGTC	1650
Db	571	GAGCTGTTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	620	Qy	1503	TTGCAAGATACCGACTTCCGCTGGACCTGAGGAGGACTTAACTGCTGGCTG	1562
Qy	483	TCTATTACCTAACAGTACAAAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	542	Db	1651	TTGCAAGATACCGACTTCCGCTGGACCTGAGGAGGACTTAACTGCTGGCTG	1710
Db	631	TCTATTACCTAACAGTACAAAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	690	Qy	1563	GGCGCTTACATGCGCTGGGTGACTCTTACATGCGACACGGCAAGGAGTC	1622
Qy	543	TCTATTACCTAACAGTACAAAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	602	Db	1711	GGCGCTTACATGCGCTGGGTGACTCTTACATGCGACACGGCAAGGAGTC	1770
Db	691	TCTATTACCTAACAGTACAAAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	750	Qy	1623	ACCTGGAGAGATCATGATGCTCTACAGGAAACTCTGCGCAACTGAGGAGG	1682
Qy	603	TCTGCTCTGGAGAACCGAGGCTAGACGAGGAGCTAGACGCTGCTAACATGAG	662	Db	1771	ACCTGGAGAGATCATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	1830
Qy	1683	TCTGCTCTGGAGAACCGAGGCTAGACGAGGAGCTAGACGCTGCTAACATGAG	1742	Qy	1783	TCTGCTCTGGAGAACCGAGGAGCTAGACGAGGAGGAGGAGGAGGAGGAG	1742

Db	1831	TGGGTGTTATAACGCCCTGCCCACTCCAACTCACCGGTCTGGTACCGGGCCCAT	1890
Qy	1743	TACGGAGCGCTACAGAGCGGACTACTGGGTGACTTCGAGGAGCTTATCA	1802
Db	1891	TACGGAGCGCTACAGAGCGGACTACTGGGTGACTTCGAGGAGCTTATCA	1950
Qy	1803	CTCAGAAGTGGTAGTGTGATCGACGGACCCAAACCTTCACTAAGCGCATCC	1862
Db	1951	CTCAGAAGTGGTAGTGTGATCGACGGACCCAAACCTTCACTAAGCGCATCC	2010
Qy	1863	CCCCTCTGACCTCTGGTGCCTGAGGAGGCCACCTGGTCACTGGTCACTGGTCA	1922
Db	2071	AAAGACAACCTCTAACAGTTCATCTGAGGGTGGAGGACCGATCTGGATCTG	2130
Db	2011	CCCTCTGACCTCTGGTGCCTGAGGAGGCCACCTGGTCACTGGTCACTGGTCA	2070
Qy	1923	AAAGACAACCTCTAACAGTTCATCTGAGGGTGGAGGACCGATCTGGATCTG	1982
Db	2131	TTTCGAGACTCGAGGATORGGACTGTGATGATCGATGAGCTGGTTCCTCC	2190
Qy	2043	TACTTCCTCACACAGACAGAGCCCTCATGTCCTCAGGACAGGACAGAGAA	2102
Db	2191	TACTTCCTCACACAGACAGAGCCCTCATGTCCTCAGGACAGGACAGAGAA	2250
Qy	2103	CTCTCTTTAAATAATTAAATAGTCCTACATAAAACA	2141
Db	2251	CTCTCTTTAAATAATTAAATAGTCCTACATAAAAAA	2289
RESULT	9		
LOCUS	AR266344		
DEFINITION	Sequence 1 from patent US 6492311.	2290 bp	DNA linear
ACCESSION	AR266344	US 6492311.	PAT 10-APR-2003
VERSION	AR266344.1	GI:29695273	
KEYWORDS	Unknown.		
SOURCE	Unclassified.		
ORGANISM	Unknown.		
REFERENCE	1. (bases 1 to 2290)		
AUTHORS	Godowski, P.J. and Gurney, A.L.		
JOURNAL	Nucl. Acids Res.		
TITLE	Patent: US 6492311-A 1-10-DEC-2002;		
FEATURES	Location/Qualifiers		
source	1..2290		
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Query Match	98 %; Score 2132.6;	DB 6;	Length 2290;
Best Local Similarity	99.8%; Pred. No. 0;		
Matches	2135; Conservative	0;	Mismatches
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151	AAATGGGGTGCTGGGACGCCCTGGAGATGACCCCCAACCCCTGGACTGGTG	210	
63	GAACCTGGAGGAGCGCTGAGCTGTGGAGGAGAAGGTGTGAGAGGCCGAG	122	
211	GCACCTGGAGGAGCGCTGAGCTGTGGAGGAGAAGGTGTGAGAGGCCGAG	270	
1023	CCGGCTGCCGCCGCCAGCTTACCAACACCCACCTACACCGCATCATACCGATC	1082	
1171	CCGGCTGCCGCCGCCAGCTTACCAACACCCACCTACACCGCATCATACCGATC	1230	
1083	TCTACCAAGAGATCCAGAGTGTACCAAGAACCTGAAAGTGTGTCCTCACCCCTGTGCACT	1142	
1231	TCTACCAAGAGATCCAGAGTGTACCAAGAACCTGAAAGTGTGTCCTCACCCCTGTGCACT	1290	
1143	ATGGCCACTCTACCAAGACCTCCATCTTCCACGAGACAGCAGCCTGGGCCCTGGAGAGAC	1202	
1291	ATGGCCACTCTACCAAGACCTCCATCTTCCACGAGACAGCAGCCTGGGCCCTGGAGAGAC	1350	
1203	TCTCTGAGGCCCTGGAGATGCCAGAACCTGCACTTCTGGTCAAGCCGCG	1262	
1351	TCTCTGAGGCCCTGGAGATGCCAGAACCTGCACTTCTGGTCAAGCCGCG	1410	
1283	ACACCAACCGCTCATCAGCTGTGTGCAACAGACAGCAGGCCGGGGCTGGAC	1322	
1411	ACACCAACCGCTCATCAGCTGTGTGCAACAGACAGCAGGCCGGGGCTGGAC	1470	
1323	GTCTCCAGAGGAGCTGGATGATGCTGTCAGGACTGGAGGAGCTGAGAAG	1382	
1417	GTCTCCAGAGGAGCTGGATGATGCTGTCAGGACTGGAGGAGCTGAGAAG	1530	

ORIGIN						
QY	1383	CAGGGGTGCGAACATGTACCTGGCGATACTTGTGCGCTGGCTTGAGAACATTACTGGCTG	1442	Query Match	98.1%	Score 2132.6; DB 6; Length 2290;
Db	1531	CAAGGTTGCGAACATGTGAGGGAACTGGCTG	1550	Best Local Similarity	99.8%; Pred. No. 0;	DB 6; Length 2290;
QY	1443	ACGAACCAAGGAACTACAACTTCCCGTGAGGAGCTSTCCSCCGCAGTC	1502	Matches 2135; Conservative	0; Mismatches 4; Indels 0; Gaps 0;	
Db	1591	ACGAAACAGGAACTACAACTTCCCGTGAGGAGCTSTCCSCCGCAGTC	1650			
QY	1503	TITGCGAATATGCCAAGTTGCCTGAGACTGTAGGGGTATAAGCTGGCTG	1562			
Db	1651	TITGCGAATATGCCAAGTTGCCTGAGACTGTAGGGGTATAAGCTGGCTG	1710			
QY	1563	GGGGCTTACATGGCATGCGGTGACTCTTACATGGCAACGGCAAGAGTCACC	1622			
Db	1711	GGGCSCTACCATGGCATGCGGTGACTCTTACATGGCAACGGCAAGAGTCACC	1770			
QY	1623	ACCTGAGACAGATATGATGTCACACAGGAACCTGIGCCACTACAGAGGGC	1682			
Db	1771	ACCTGAGACAGATATGATGTCACACAGGAACCTGIGCCACTACAGAGGGC	1830			
QY	1683	TGTGGTATAACGCCCTGCGCACTCAACGGGTCTGTTACCGGGGCCAT	1742			
Db	1831	TGTGGTATAACGCCCTGCGCACTCAACGGGTCTGTTACCGGGGCCAT	1890			
QY	1743	TACCGAGGCCCTACAGAGGAGTACTGGGTGAGTTCCGAGGAGCTCTACTA	1802			
Db	1891	TACCGAGGCCCTACAGAGGAGTACTGGGTGAGTTCCGAGGAGCTCTACTA	1950			
QY	1803	CTCAAGAAAGTGTGATGATGATCCGACCGAACCCAAACCTTCACTAAGCCGCTC	1862			
Db	1951	CTCAAGAAAGTGTGATGATGATCCGACCGAACCCAAACCTTCACTAAGCCGCTC	2010			
QY	1863	CCCTCTGACCTCTCGGGCATTGCGAGGCCCCCTGTAQGCTGGCCAGCAC	1922			
Db	2011	CCCTCTGACCTCTCGGGCATTGCGAGGCCCCCTGTAQGCTGGCCAGCAC	2070			
QY	1923	AAAGAAACACTCTACCAAGTCACTCTGAGGAGCCGGATGTGGATCTG	1982			
Db	2071	AAAGAAACACTCTACCAAGTCACTCTGAGGAGCCGGATGTGGATCTG	2130			
QY	1983	TTTCCAAAGTACTGAGGAGTGTGAACTGATGATGAGGTGTTCTGCCCCCTC	2042			
Db	2131	TTTCCAAAGTACTGAGGAGTGTGAACTGATGAGGTGTTCTGCCCCCTC	2190			
QY	2043	TACTTCTCTACACAGACAGGCCCTCATGCTTCAGGACAGACAGACTACAGACA	2102			
Db	2191	TACTTCTCTACACAGACAGGCCCTCATGCTTCAGGACAGACAGACTACAGACA	2250			
QY	2103	TCTCTCTTATAATTAGTCATCATTAACCA	2141			
Db	2251	CTCTTCTTATAATTAGTCATCATTAACCA	2289			
RESULT 10						
AR307688						
LOCUS	AR307688	Sequence 1 from patent US 6551822.	DNA	linear	PAT 12-JUN-2003	
DEFINITION		2290 bp				
ACCESSION	AR307688					
VERSION	AR307688.1					
KEYWORDS		GI:31698425				
SOURCE	Unknown.					
ORGANISM	Unclassified.					
REFERENCE	1 (bases 1 to 2290)					
AUTHORS	Godowski, P.J., Gurney, A.L., Hillan, K., Botstein, D., Goddard, A., Roj, M., Ferrara, N., Tunas, D. and Schwall, R.					
TITLE	Patent: US 6551822-A 1-22-APR-2003;					
JOURNAL	Locality/Qualifiers					
FEATURES	1. 2290 /organism="unknown"					
source	/mol_type="genomic DNA"					

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Db	1171	CCGGTGTCCCCGGGTTACCAACCACCATCACCGCATCATCACAGATC	1230
QY	1083	TCTGACCAAGGAGTCAGACTGACCGAGCTGAAGCTGAGGTGCTGCC	1142
Db	1231	TCTACCAACAGAGATTCAGAGTGACCGAGCTGAGGTGCTGCC	1290
QY	1143	ATGCCACTTCACCGGCCTCCATCTTCAACCGGAAAGCTGAGGTGCT	1202
Db	1291	ATGCCACTTCACCGGCCTCCATCTTCAACCGGAAAGCTGAGGTGCT	1350
QY	1203	TGCCTGAGGCCCTGGAGATGGCCCGACACCGGTCATCTACTGGAG	1262
Db	1351	TGCCCAGGCGCTTGAGGATGGCCAGAACAGCTTCATCTACTGGAG	1410
QY	1263	AACACAAACCCCTATGAGCTGAGGTGCTGACCAAGAGACGAC	1322
Db	1411	AACACAAACCCCTATGAGCTGAGGTGCTGACCAAGAGACGAC	1470
QY	1323	GTCATCAGAGACGGCTGGATGGCTGTGTTAATCTTCAGGAACT	1382
Db	1471	GTCATCAGAGACGGCTGGATGGCTGTGTTAATCTTCAGGAACT	1530
QY	1383	CAAGGTTGGAACTTGGGGGATACTGGCTGGCTGGAGACATT	1442
Db	1531	CAAGGTTGGAACTTGGGGGATACTGGCTGGCTGGAGACATT	1590
QY	1443	ACGAGCAAGGAACTACAACCTCCGTGACCATCGGAGCTGGAG	1502
Db	1591	ACGAGCAAGGAACTACAACCTCCGTGACCATCGGAGCTGGAG	1650
QY	1503	TTTGCAGATTCGCCGTTTCGCCCTGGACCTGAGAGCTGGAG	1562
Db	1651	TTTGCAGATTCGCCGTTTCGCCCTGGACCTGAGAGCTGGAG	1710
QY	1563	GGGCGTACATGGCATGCGGTGACTCCCTTGAGGAGCTGGCTG	1622
Db	1711	GGGCGTACATGGCATGCGGTGACTCCCTTGAGGAGCTGGCTG	1770
QY	1623	ACCTGACAGAGATATGAGTCTACAGGAATTGGCCACCTACAG	1682
Db	1771	ACCTGACAGAGATATGAGTCTACAGGAATTGGCCACCTACAG	1830
QY	1683	TGGTGTATAAGGCCCTGGCCACTTCAACCTCAAGGGCTGGAC	1742
Db	1831	TGGTGTATAAGGCCCTGGCCACTTCAACCTCAAGGGCTGGAC	1890
QY	1743	TACCGAGGCCCTACCAAGGACGGAGTTACTGGCTAGTCGAG	1802
Db	1891	TACCGAGGCCCTACCAAGGACGGAGTTACTGGCTAGTCGAG	1950
QY	1803	CTCAAAAGGCTGTGATGATCCACCGAACCCACACCTTCACAG	1862
Db	1951	CTCAAAAGGCTGTGATGATCCACCGAACCCACACCTTCACAG	2010
QY	1863	CCCTCTGACTCTCGGCAATGCGAGGCCCCCTGAGCTGGCCAC	1922
Db	2011	CCCTCTGACTCTCGGCAATGCGAGGCCCCCTGAGCTGGCCAC	2070
QY	1923	AAAGACACTCTCCAGTCATCTGAGGTGGAGGACGGATCGATCTG	1982
Db	2071	AAAGACACTCTCCAGTCATCTGAGGTGGAGGACGGATCGATCTG	2130
QY	1983	TTTCCGAGTCACTGGAGGGATGAGGAACGAACTTCACAGAC	2042
Db	2131	TTTCCGAGTCACTGGAGGGATGAGGAACGAACTTCACAGAC	2190
QY	2043	TACTTCTTCACACAGACACCCCTCATGTCAGGAGCTGGCTG	2102
Db	2191	TACTTCTTCACACAGACACCCCTCATGTCAGGAGCTGGCTG	2250

Db	331	GACCCACTGAGGCCGGCTGCGCTGAGGCCACGGCGCTGAGCACTTGGAAACCCCTCCAG	3 90	Db	1411	AACACCAACGCCCATGAGGTGGGACGAGACGCCCGGGCGTGACC	1470
Qy	243	AGGCATGGACAGCGCTGCCCGGTGACGCCAGGGTGAGAAGCTGGAGGCCCG	3 02	Qy	1323	GTCATCCAGAGACCTCTGATGCTCTGTAACCTCTCAGAACCTGGAGACTCAAG	13 82
Db	3 91	AGGCATGGACAGCGCTGCCCGGTGACGCCAGGGTGAGAAGCTGGAGGCCCG	4 50	Db	1471	GTCATCCAGAGACCTCTGATGCTCTGTAACCTCTCAGAACCTGGAGACTCAAG	15 30
Qy	303	AGCAAGGAGGAGGAGGCTTCTAGATCTTCAAGATAACCAATT	3 62	Qy	1383	CAAGGGTTGGGACATGACGGGAATACTGGCTGGACCTGGAGACATTACTGCTG	14 42
Db	451	AGCAAGGAGGAGGAGGCTTCTAGATCTTCAAGATAACCAATT	5 10	Db	1531	CAGGTTTGGGACATGACGGGAATACTGGCTGGCTGGAGACATTACTGCTG	15 90
Qy	3 63	GCAAGACATAGGGACTGNGCTTCTAGATCTTCAAGATAACCAATT	4 22	Qy	1443	ACGACCAAGGACTACAACCTCTGACATGGAGGACTGGTCCGGCGCAAAGTC	15 02
Db	511	GCAAGACATAGGGACTGNGCTTCTAGATCTTCAAGATAACCAATT	5 70	Db	1591	ACGACCAAGGACTACAACCTCTGACATGGAGGACTGGTCCGGCGCAAAGTC	16 50
Qy	423	GGAGCTGGCAGGAGGAGGCTTGGGGACTGGAGGAGGCTCCAGAGAG	4 82	Qy	1503	TTTCAGATAACCCAGTTCCCTGAGGACTGAGGAGCTGGTCCGGCGCAAAGTC	15 62
Db	571	GGAGCTGGCAGGAGGAGGCTTGGGGACTGGAGGAGGCTCCAGAGAG	6 30	Db	1651	TTTCAGATAACCCAGTTCCCTGAGGACTGAGGAGCTGGTCCGGCGCAAAGTC	17 10
Qy	483	TTCATTACCTAACAGGTACAGGGGGGGAGTCCAGGACAGTGACCTAAC	5 42	Qy	1563	GGGGCTTACATGCCAATGCCGCTTGAACTTGAGGAGCTTATAAGCTGGCGCTG	16 22
Db	631	TTCATTACCTAACAGGTACAGGGGGGGAGTCCAGGACAGTGACCTAAC	6 90	Db	1711	GGGGCTTACATGCCAATGCCGCTTGAACTTGAGGAGCTTATAAGCTGGCGCTG	17 70
Qy	543	TTCATTTGGCCCCAGCACGGGTCACGGGTCCATITGCTCACTCCAAGGAGCTGAG	6 02	Qy	1623	ACCTGGACAGAGATCATGATGCTACACAGAACTGTGCCCCACTACAGAGGAGC	16 82
Db	603	GGCTCTGGAGAACGACGGTGTAGGAGGCTGAGCTGCTCACATGAGCTGAG	7 50	Db	1771	ACCTGGACAGAGATCATGATGCTACACAGAACTGTGCCCCACTACAGAGGAGC	18 30
Qy	691	TTCATTGTCGCCAGCACGGGTCAAGGGTCACTGGTCAACTCCAGAGGCTGAG	8 10	Db	1683	TG3GGGTTAACCCCTGTCGCCACTCAACCTAACGGGTGTGACCGGGGGCCAT	17 42
Db	751	GGCTCTGGAGAACGACGGTGTAGGAGGCTGAGCTGCTCACATGAGCTGAG	6 62	Db	1831	TGGGGTATAACCCCTGTCGCCACTTCACCTAACGGGTGTGACCGGGGGCCAT	18 90
Qy	663	AACAGGAGGCGCAGATGAGACGGCTGAGGAGCTGGTGAACGGGCGCATGAG	7 22	Qy	1743	TACGGGACCGGTACCAAGGAGGACTGTGAGTGGGAGGAGGTCTACTCA	18 02
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Qy	723	AGGGAGGTGAACTCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGC	7 82	Qy	1803	CTTAAAGAAGTGTGATGATGATCCGAGGAGGAGGAGGAGGAGGAGGAGGAGG	18 62
Db	871	AGGGAGGTGAACTCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGC	9 30	Db	1951	CTTAAAGAAGTGTGATGATGATGATCCGAGGAGGAGGAGGAGGAGGAGGAGG	20 10
Qy	783	TAGATGAGCTCTGAGGAGATCATCGCAAGGGGACAALGGGTGAGCTCTCCAG	8 42	Qy	1863	CCCTCTGACTCTGCGGCATTCGAGGAGCCACCTCTGGTAGCTGCTGCTGAGCAC	19 22
Db	903	TACATGAGCTCTGAGGAGATCATCGCAAGGGGACAATCTGCACTGAGCTCCAG	9 90	Db	2011	CCCTCTGACTCTGCGGCATTCGAGGAGCCACCTCTGGTAGCTGCTGCTGAGCAC	20 70
Qy	943	CTGGAGAACAGGATCTGAGGAGAACGAGAACGAGAACATCTGCACTGAGCTCCAG	9 02	Qy	1923	AAAGAACACTCTCACAGGTTACCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	19 82
Db	991	CTGGAGAACAGGATCTGAGGAGAACGAGAACGAGAACATCTGCACTGAGCTCCAG	10 50	Db	2071	AAAGAACACTCTCACAGGTTACCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	21 30
Qy	1051	GACCTGGAGAACAGGATCTGAGGAGAACGAGAACATCTGCACTGAGCTCCAG	9 62	Qy	1983	TTTCGGAAGTCACTGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	20 42
Db	963	GCCGAGCTGAGGAGACTTGAGGGTGCAGGGTGCCTCGCCAGGCCCAGGACCC	10 22	Db	2131	TTTCGGAAGTCACTGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	21 90
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AUTHORS	Baker,K.P., Gerresini,M., Deforge,L., Desnoyers,L., Filvaroff,E., Goddard,A., Godowski,P.J., Gurney,A.L., Gao,W.Q., Gerritsen,M.E., Goddard,A., Godowski,P.J., Gurney,A.L.,	Homo sapiens (human)	SOURCE				

SHERWOOD, S., SMITH, V., STEWART, T.A., TUMAS, D., WATANABE, C.K., WOOD, W.L. and ZHANG, Z.	SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME	WO 014066-A 267 07-JUN-2001; GENENTECH INC. (US)	JOURNAL	FEATURES	ORIGIN
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AUTHORS	Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J., Chen,J., Chow,B., Choi,C., Crowley,C., Curreli,B., Denell,B., Dowd,P., Eaton,J., Foster,J., Grimaldi,C., Gu,Q., Hase,P.E., Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S., Lee,J., Lewis,J., Liao,D., Mark,M., Robbie,E., Sanchez,C., Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V., Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieland,D., Woods,K., Xie,M.H., Yansura,D., Yu,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
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VERSION	AY358274.1 GI:371781667
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FEATURES	JOURNAL Genome Res. 13 (10), 2265-2270 (2003)
SOURCE	PUBLISHED 12975309
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AUTHORS	Lee,J., Lewis,J., Liao,D., Mark,M., Robbie,E., Sanchez,C., Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V., Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieland,D., Woods,K., Xie,M.H., Yansura,D., Yu,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
TITLE	The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatics Assessment
JOURNAL	Submitted (01-AUG-2003) Department of Bioinformatics, Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080, USA
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result

Query

Match Length DB ID

Description

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													STREET: 1 DNA Way
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Db	991	CYGGAGACAGGATCTGAAACCGAGCCGAGCATGTTGAGCTGCGCAGCTGAG
Qy	903	GACTTGAGCAAGTACAGACCTGCCACTGSCCAACACATCATGAGATCATC
Db	1051	GACCTGGAGCACAGTACAGACCTGCCACTGSCCAACACATCATGAGATCATC
Qy	963	GCGGAGCTGAGGAGACTGCCAGAGGGTGGCTGGCAGGGCTGCCACACCATGAG
Db	1111	GCGGAGCTGAGGAGACTGCCAGAGGGCTGCCACACCATGAGATCATGAGATCATC
Qy	1023	CCGGCTGCCCCGGCCCTCCATCTTCAAGGAGACCTGAGGAGCTGCCACCTGCCACT
Db	1171	CCGGCTGCCCCGGCCCTCCATCTTCAAGGAGACCTGAGGAGCTGCCACCTGCCACT
Qy	1143	ATGCCCACTCTGACCCAGCTCCATCTTCAAGGAGACCTGAGGAGCTGCCACCTGCCACT
Db	1291	ATGCCCACTCTGACCCAGCTCCATCTTCAAGGAGACCTGAGGAGCTGCCACCTGCCACT
Qy	1083	TCTACCAAGAGATCAGAGTACAGGAGACCTGAGGAGCTGCCACCTGCCACCTGCCACT
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Qy	1170	TCTACCAAGAGATCAGAGTACAGGAGACCTGAGGAGCTGCCACCTGCCACCTGCCACT
Db	1290	TCTACCAAGAGATCAGAGTACAGGAGACCTGAGGAGCTGCCACCTGCCACCTGCCACT
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Db	1230	CTGGCTGCCCCGGCCCTCCATCTTCAAGGAGACCTGAGGAGCTGCCACCTGCCACT
Qy	1142	CTGGCTGCCCCGGCCCTCCATCTTCAAGGAGACCTGAGGAGCTGCCACCTGCCACT
Db	1350	CTGGCTGCCCCGGCCCTCCATCTTCAAGGAGACCTGAGGAGCTGCCACCTGCCACT

TITLE OF INVENTION: Tie Ligands
 NUMBER OF SEQUENCES: 24
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 1 DNA Way
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WinPatin (Genentech)
 APPLICATION NUMBER: US/08/960,507
 FILING DATE:
 CLASSIFICATION: 536
 ATTORNEY/AGENT INFORMATION:
 NAME: Dreger, Ginger R.
 REGISTRATION NUMBER: 33, 055
 REFERENCE/DOCKET NUMBER: P1130p1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650/225-3216
 TELEX/FAX: 650/952-9881
 INFORMATION FOR SEQ ID NO: 1:
 LENGTH: 2290 base pairs
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TORPOLOGY: Linear
 US-08-960-507-1

Best Local Similarity 98.1%; Score 2132; DB 3; Length 2290;
 Matches 2135; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 AATATGGAGCTGTCGGAGCGGCCTGAGGATACCCAAASCCTGTGACCCGAGCGTG 62
 Db 151 AATATGGAGCTGTCGGAGCGGCCTGAGGATACCCAAASCCTGTGACCCGAGCGTG 210
 Qy 63 GCACTGGCGCGGGTGAACGCTACTGTGAGGAANGAAGTTGAGCAGGCCCGCAG 122
 Db 211 GCACTGGCGCGGGTGAACGCTACTGTGAGGAANGAAGTTGAGCAGGCCCGCAG 270
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 Qy 183 GAGCCATGGAAGGGCTGAGGCTGAGGCTCTGGAGCCACCGCCCTGAACTCAGGAA 242
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 Db 391 AGGCCATGGAAGGGCTGAGGCTCTGGAGCCACCGCCCTGAACTCAGGAAACCC 450
 Qy 303 AGCCAGCAGGAGGGAGGAGTTCATAGATTCTACAAAGATAACCAATT 362
 Db 451 AGCCAGCAGGAGGGAGGAGCTTCTATAGATCTATCACAAAGATAACCAATT 510
 Qy 363 GCAAGGCGCAGGCACTTGGCGACATCTGCTGGTGGAGCTGGCGCCATG 422
 Db 511 GCAAGGCGCAGGCACTTGGCGACATCTGCTGGTGGAGCTGGCGCCATG 570
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 Db 571 GGAGCTGTTGAGGCGAGGAGCGGTTCAGGGACTGGCGCCATG 630
 Qy 483 TTCAATTACCTAACAGGTACAGCGGGCGGAGTCCCGAGACAGTCACCC 542
 Db 631 TTCAATTACCTAACAGGTACAGCGGGCGGAGTCCCGAGACAGTCACCC 690
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QY 543 TTCAATTGTCGCCAGCAGCGGGTACGGGTGCCATCTCGTCAACTCAAAGGAGCTGAG 602
 Db 691 TTCAATTGTCGCCAGCAGCGGGTACGGGTGCCATCTCGTCAACTCAAAGGAGCTGAG 750
 Db 603 GTGCCTCTGAGAACGGTGTGATAGGGACTAGAGGAGCTAGGCTGTCAGGATAGCTGCTC 662
 Qy 751 GTGCCTCTGAGAACGGTGTGATAGGGACTAGAGGAGCTAGGCTGTCAGGATAGCTGCTC 810
 Db 663 AAGGAGACGGCGAGATGAGACGCTGGAGCAGCTGGTAACCTGGGGCGCATTTG 722
 Qy 811 AAGCAGAAGGGCAGATGAGACGCTGGAGCAGCTGGTGGAGGTGAGCGGGCATTTG 870
 Qy 723 AGGGAGGAGCTGCTGGAGGAGGGCGAACATCACTGGGGTACGGAGGTC 782
 Db 871 AGGGAGGAGCTGCTGGAGGAGGGCGAACATCACTGGGGTACGGAGGTC 930
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 Db 1351 TGCCCTGGCCCTGGAGATGCCACACAGCTCATCTPACTCTGTGAGGCGAG 1410
 Qy 1263 AACACCAACGCCCTCATCAGGCTGGCGAGGAGACACACCCGGGGCTGGCC 1322
 Db 1411 AACACCAACGCCCTCATCAGGCTGGCGAGGAGACACACCCGGGGCTGGCC 1470
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 Db 1651 TTTCAGGAACTCCAGTTCTGGCTGGAGGAGCTGGAGGAGCTGGAGGAGCTGGAG 1710
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Db 1111 GCGCAGCTGTGAGGAGCACTGGCCAGAGGGTGCCTCGCCAGGCCGTCAGCCACCC 1170
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 Db 1531 CAAGGGTTGGAACTTGTGAGGCGTAACTGGCTGGGAGAACATTACTGGCTG 1590
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 Db 1591 ACGAAACAAGGCAACTACAAACTCTGGGCAATGGGAGCTGTCGGCGGAAGTC 1550
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 QY 1683 TGGTGTGATAAGGCTGTGCCACTCAACCTCAAGGGCTTGATCGGGGGCAT 1742
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 QY 1743 TACCGAGCCCTACAGGGGGACTCTGGCTGAGTCCAGGGCTTACTA 802
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 QY 1863 CCCTCTGTGACCTCTGTGGCTTATGCCAGGGCCACCCCTGTGTCAGCTGGCCACGC 1922
 Db 2011 CCTCTGTGACCTCTGTGGCTTATGCCAGGGCCACCCCTGTGTCAGCTGGCCACGC 2070
 QY 1923 AAAGAACACTCTTACCACTCTGTGGCTTATGCCAGGGCCACCCCTGTGTCAGCTGGCCACGC 1982
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 QY 1983 TTCCGAGACTCTGAGGAGTGTGAGTGTGAGCTGGACCCACCTGGAGCTGGCCACGC 2042
 Db 2131 TTCCGAGACTCTGAGGAGTGTGAGCTGGACCCACCTGGAGCTGGCCACGC 2190
 QY 2043 TACTTCTTACACAGAGGCCCTCATGTCAGGAGAGGAGACTACAGACA 2102
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QY 2103 CTCTTCTTAATAATAAGTCTCAATAAAACA 2141
 Db 2251 CTCTTCTTAATAATAAGTCTCAATAAAACA 2289

RESULT 4
 US 09-312-928A-1
 ; Sequence 1, Application US/0933298A
 ; Patent No. 6368853
 ; GENERAL INFORMATION:
 ; APPLICANT: Godowski, Paul J.
 ; Gurney, Austin L.
 ; TITLE OF INVENTION: Tie Ligands
 ; NUMBER OF SEQUENCES: 17
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: Genentech, Inc.
 ; STREET: 1 DNA Way
 ; CITY: South San Francisco
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94180
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WinPatin (Genentech)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US09/332,928A
 ; FILING DATE: 14-Jun-1999
 ; CLASSIFICATION: <Unknown>
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: 08/933,821
 ; FILING DATE: <Unknown>
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Dreger, Ginger R.
 ; REGISTRATION NUMBER: 33,055
 ; REFERENCE/DOCKET NUMBER: P1130
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 650/25-3216
 ; TELEFAX: 650/952-9881
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 2290 base pairs
 ; TYPE: Nucleic Acid
 ; STRANDEDNESS: Single
 ; TOPOLOGY: Linear
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 ; US-09-332-928A-1

Query Match: 98.1%; Score 2132.6; DB 4; Length 2290;
 Best Local Similarity 99.8%; Pred. No. 0;
 Matches 2135; Conservatv. 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 AATGAGGCTGTGGAGGGCTGTGAGATGACCCAGGCTGGAGCTGGCCAGCTG 62
 Db 151 AATGAGGCTGTGGAGGGCTGTGAGATGACCCAGGCTGGCCAGCTGGAGCTG 210
 QY 63 GCATGAGGCAAGGGCTGTGAGATGACCCAGGCTGGCCAGCTGGAGCTGGAGCTG 122
 Db 211 GCATGAGGCAAGGGCTGTGAGATGACCCAGGCTGGCCAGCTGGAGCTGGAGCTG 270
 QY 123 ACCCTGCCTACGGCTGTGGAGGGCTGTGAGATGACCCAGGCTGGCCAGCTGGAGCTG 182
 Db 271 ACCCTGCCTACGGCTGTGGAGGGCTGTGAGATGACCCAGGCTGGCCAGCTGGAGCTG 330
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 Db 331 GACCCAGTGTGGAGGGCTGTGGAGGGCTGTGAGATGACCCAGGCTGGCCAGCTGGAGCTG 390
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 Db 391 AGCCATGAGGCTGCCCTGTGGAGGGCTGTGGAGGGCTGTGAGATGACCCAGGCTGGAGCTG 450

QY 303 AGCCAAAGGAGGGGAGGGCTTCAATTCATTCAACAAAGATAACCACATT 362 QY 511 GCAAAGCCATGAGGCACACTTGCGTGTGAGCTGAGCATGGAGACTGGTCCGGCCAGTC 422 QY 451 AGCCAAGCAGGAGGGAGGGCTTCAATTCATTCAACAAAGATAACCACATT 510 Db 363 GCAAAGCCATGAGGCACACTTGCGTGTGAGCTGAGCATGGAGACTGGTCCGGCCAGTC 422 QY 511 GCAAAGCCATGAGGCACACTTGCGTGTGAGCTGAGCATGGAGACTGGTCCGGCCAGTC 422 Db 423 GGAGCTTTGAGGCCAGGAGACGTTTGAGGGCAGTGGAGGGCTGGCCAGAG 482 QY 571 GGAGCTTTGAGGCCAGGAGACGTTTGAGGGCAGTGGAGGGCTGGCCAGAG 630 Db 483 TTCATTAAACAGGTAAGCGGGGGCTCCAGGAGACGGGACCTAC 542 QY 631 TTCAATTAAACAGGTAAGCGGGGGCTCCAGGAGACGGGACCTAC 690 Db 543 TTCATTGGCCAGCAGGGGTCAAGGGTCCATGTGCAACTCCAGGAGCTAG 602 QY 691 TTCATTGGCCAGCAGGGGTCAAGGGTCCATGTGCAACTCCAGGAGCTAG 750 QY 603 GRCCTCTGAGAACCCAGTGTGAGCTAACAGGAGCTAGAGGTGCTCACAGTGGCTC 662 Db 751 GRCCTCTGAGAACCCAGTGTGAGCTAACAGGAGCTAGAGGTGCTCACAGTGGCTC 810 Db 663 AAGCAGAGGSCAGATGCGAGCTGCGTCAAGGAGCTAGAGGTGCTCACAGTGGCTC 870 QY 811 AAGCAGAGGSCAGATGCGAGCTGCGTCAAGGAGCTAGAGGTGCTCACAGTGGCTC 810 Db 723 AGGGAGGTGAAGCTGCGGAGGGAGGCGCAACATGACTCCGGTCAACAGTC 782 QY 871 ACGGAGGTGAAGCTGCGGAGGGAGGCGCAACATGACTCCGGTCAACAGTC 930 QY 783 TACATGAGCTCTGCAAGGAGTATCGAGCTGCGAGCTGCGAGCTGCGAGTC 942 QY 931 TACATGAGCTCTGCAAGGAGTATCGAGCTGCGAGCTGCGAGTC 990 Db 843 CTGGAGAGGACGGATCTGCGAGAGCCACATGACTCCGGTCAACAGTC 902 QY 991 CTGGAGAGGACGGATCTGCGAGAGCCACATGACTCCGGTCAACAGTC 942 Db 903 GACCTGAGAACAGTACCGCCACACTGGCCACATGACTCCGGTCAACAGTC 962 QY 1051 GACTGGAGAACAGTACCGCCACACTGGCCACATGACTCCGGTCAACAGTC 1110 QY 963 GCGCAGTTGAGGACACTGGCCACACTGGCCACATGACTCCGGTCAACAGTC 1022 QY 1111 GCGCAGTTGAGGACACTGGCCACACTGGCCACATGACTCCGGTCAACAGTC 1170 Db 1023 CGCGCTGCCGCCGCCGCTTACACACCACTACACCGCATCATACACAGATC 1082 QY 1171 CGCGCTGCCGCCGCCGCTTACACACCACTACACCGCATCATACACAGATC 1230 Db 1083 TCTTACCAAGGAGATCCAGAGTGTGACCAACCTGCGCCACCCCCCTGCGCCACT 1142 QY 1231 TCTTACCAAGGAGATCCAGAGTGTGACCAACCTGCGCCACCCCCCTGCGCCACT 1290 Db 1143 ATGCCCACTCTTACCAACCTCCATCTTCACCGACAGGGCTGGCCCATGAGAC 1202 QY 1291 ATGCCCACTCTTACCAACCTCCATCTTCACCGACAGGGCTGGCCCATGAGAC 1350 Db 1203 TGCTTGAGGCCCTGGGGATGGCCAGAACAGGCTCATACTGGTGAAGGGAG 1262 QY 1351 TGCTTGAGGCCCTGGGGATGGCCAGAACAGGCTCATACTGGTGAAGGGAG 1410 Db 1263 AACACCAACCGCTCATGAGGTGTGAGAACAGGACGCCGGGGCTGGAC 1322 QY 1411 AACACCAACCGCTCATGAGGTGTGAGAACAGGACGCCGGGGCTGGAC 1470 QY 1323 GTCATCCAGGAGGCCCTGGATGGCTCTTAACCTCTTACAGGAACTGGGAGCTACAG 1382 Db 1471 GTCATCCAGGAGGCCCTGGATGGCTCTTAACTCTTACAGGAACTGGGAGCTACAG 1530

QY 1393 CAAGGGTTGGAACTTGAGCGGAATACTGGCGGAACTTGCGCTGGGCTGGAGAACATTTACTGGCTG 1442 Db 1531 CAAGGGTTGGAACTTGAGCGGAATACTGGCTGGGCTGGGAGAACATTTACTGGCTG 1590 Db 1443 ACAGAACAGGGAACTACAACCTCTGCTGACATGGAGACTGGTCCGGCCAGTC 1502 QY 1591 ACCAACAAAGGAACTACAACCTCTGCTGACATGGAGACTGGTCCGGCCAGTC 1650 Db 1503 TTGCAATAAGCCAGTTGCGCTGGACCTGAGGCGAGTATAACTGGCGCTG 1562 QY 1651 TTGCAATAAGCCAGTTGCGCTGGAGGCGAGTATAACTGGCGCTG 1710 Db 1563 GGAGCTTACATGGCAATGCGGTGACTCTTACGGGCAACCGCAACAGTC 1622 QY 1711 GGGGCTTACATGGCAATGCGGTGACTCTTACGGGCAACCGCAACAGTC 1770 Db 1623 ACCTGAGAGATCTGATGTTGCTACAGAAGGAGCTACAGAAGGGAGC 1682 QY 1771 ACCTGAGAGATCTGATGTTGCTACAGAAGGAGCTACAGAAGGGAGC 1830 Db 1683 TGTGTTATAACCCCTTGCCACTCCACCTCAAGGGGTTGGTAACTGGGGACAT 1742 Db 1831 TGGTTGATAACCCCTTGCCACTCCACCTCAACGGGTTGGTAACTGGGGACAT 1890 Db 1743 TACGGAGCGCTTACGGAGGAGTACTGGGGTGTACTGGGGTGTACTGGGGTGT 1802 QY 1891 TACGGAGCGCTTACGGAGGAGTACTGGGGTGTACTGGGGTGTACTGGGGTGT 1950 Db 1803 CTCAGAAAGTGGTGTATGATGATGCGGAGGCACTTCCACTAACCGAGCTC 1862 QY 1951 CTCAGAAAGTGGTGTATGATGATGCGGAGGCAACACTTCCACTAACCGAGCTC 2010 Db 1863 CCTCTCTGACCTCTGCGGCCATGCGGAGGCACTTCCACTAACCGAGCTC 1922 Db 2011 CCTCTCTGACCTCTGCGGCCATGCGGAGGCAACCTGGTGTACTGGGGTGT 2070 Db 1923 AAAGAACACTCTCACAGTCATCTGAGGAGGCAACACTTCCACTAACCGAGCTC 1982 QY 2071 AAAGAACACTCTCACAGTCATCTGAGGAGGCAACACTTCCACTAACCGAGCTC 2130 Db 1983 TTTCGAGGTCTGCGGGGATGATGATGCGAATGATGATGCGGTTTGTGCGCTCC 2042 QY 2131 TTTCGAGGTCTGCGGGGATGATGATGCGGTTTGTGCGCTCC 2190 Db 2043 TACTTCTTACACAGAACGCCCTCATGTCCTGGAGGAGGACTACAGCAA 2102 QY 2191 TACTTCTTACACAGAACGCCCTCATGTCCTGGAGGAGGACTACAGCAA 2250 Db 2103 CTCTTCTTAAATTAAGTCTCATACAAACAA 2141 Db 2251 CTCTTCTTAAATTAAGTCTCATACAAACAA 2289

RESULT 5
US-09-136-801-1
; Sequence 1, Application US/09136801
; General Information:
; Patent No. 641370
; Applicant: Godowski, Paul J.
; Applicant: Gurney, Austin
; Applicant: Hillian, Kenneth
; Applicant: Bottstein, David
; Applicant: Goddard, Audrey
; Applicant: Roy, Margaret
; Applicant: Ferrara, Napoleone
; Applicant: Tumas, Daniel
; Applicant: Schwall, Ralph
; Title of Invention: Tie Ligand Homologues
; Number of Sequences: 35
; Correspondence Address:
; Addressee: Genentech, Inc.
; Street: 1 DNA Way
; City: South San Francisco

Page
7

STATE: California
COUNTRY: USA
ZIP: 94090

COMPUTER READABLE FORM:
COMPUTER TYPE: 3.5 inch, 1.44 Mb floppy
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/136,801
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: P1130P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-3216
TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2290 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear

US-09-136-801-1

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Query Match      99.8%; Score 2132.6; DB 4; Length 2290;
Best Local Similarity 99.8%; Score 2132.6; DB 4; Length 2290;
Matches 2135; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy	903	GACTCTGGACAAGTACAGTACCGACCTGGCCAACTCGCCCCAACACATAGAGATC	962
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Qy	1203	TGCCRCCAGGCCCTGGAGGATGGCCCGACGACCGCTCCATCTACCTGGTAAGGGGAG	1262
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Qy	1263	ACACCAACCCCTATGAGCGTGTGGTGGACCGAGAGACGACCCGGGGCTGAC	1322
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Qy	1651	TTGGAGAATAGCGGTTCCGGCGTGGAACTCTGGTACCATGGGACTGTCGCCGCAAGTC	1770
Db	1623	ACCCCTGGACAGAGATCTGATGTCACAGGAACTGTCGCCACTACCGAAGGGAGC	1682
Qy	1771	ACCCCTGGACAGAGATCTGATGTCACAGGAACTGTCGCCACTACCGAAGGGAGC	1830
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Db	1711	TGGTGTATACGGCTGTCGCCATTCACGGGCTGCTGAGCGAGTTCACCGGCTC	1770
Qy	1723	ACCCCTGGACAGAGATCTGATGTCACAGGAACTGTCGCCACTACCGAAGGGAGC	1830

Db 2251 CTCTTCTTAATAATTAGTCCTACATAAAAAA 2289
RESULT 7
US-09-333-075-1
Sequence 1, Application US/9333075
Patent No. 642331
GENERAL INFORMATION:
APPLICANT: Godowski, Paul J.
APPLICANT: Gurley, Austin L.
TITLE OF INVENTION: Tie Ligands
NUMBER OF SEQBOUNCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/333, 075
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/933, 821
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33, 055
REFERENCE/DOCKET NUMBER: P1130
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-3216
TELEFAX: 650/225-9881
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2290 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
US-09-333-075-1

Query Match 98.1%; Score 2132; 6; DB 4; Length 2290;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2135; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Matches 2135; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 AATGGGGCTGTGGAGCGCCGAAAGCCCAAGGCCCTGGACCTGGCCGAGCTG 62	Ds 151 AATGAGCTGTGGCCAGCGCTGAGGATGACCCCCAACGCCTGGACCTGG 210
Qy 63 GCATCTAGGCAAGGGCTGACCTACTCTGAGGGAAAAGCTTGAGAGCAGG 122	Ds 211 GCCTTAGGGAGGGCTGACCTACTCTGAGGGAAAAGCTTGAGAGCAGG 270
Qy 123 ACCCTGGCAACCTGGCCAGCTCTGGCGGAACCCCTTGAGGGAGGCCAGT 182	Ds 271 ACCCTGGCAACCTGGCCAGCTCTGGCGGAACCCCTTGAGGGAGGCCAGT 330
Qy 183 GAGCCGAGTGGAGGGAGGGCTCTGGACAGCCACGGCTGGAACGGACCTCCAG 242	Ds 331 GAGCCGAGTGGAGGGAGGGCTCTGGACAGCCACGGCTGGAACGGACCTCCAG 390
Qy 243 AGGCCATGGACAGGGCTGCCGCTGAGGGAGGGCTGAGGGAGGCCCTGG 302	Ds 391 AGGCCATGGACAGGGCTGCCGCTGAGGGAGGGCTGAGGGAGGCCCTGG 450
Qy 303 AGCCAGCAGGGAGGGAGGGCTTATAGTTCTATTCAGAATACACCATTT 362	Ds 451 AGCCAGCAGGGAGGGAGGGCTTATAGTTCTATTCAGAATACACCATTT 510

QY 363 GCAAGAACATGAGGCCACTGTGGCTGACAGTGTGCTGGTGACTGTGGCTGCCAAGTC 422
 511 GCAGGACCATGAGGCCACTGTGGCTGACAGTGTGCTGGTGACTGTGGCTGCCAAGTC 570
 423 GGAGCTGTGAGGCCAGGAGACGGTTTGAGGCACCTGGAGGGCTGCCAAGAG 482
 571 GGAGCTGTGAGGCCAGGAGACGGTTTGAGGCACCTGGAGGGCTGCCAAGAG 630
 483 TCCATTACCTAACAGGTAACAGGGCTACGGGAGTCCAGGAACAGTCACCTACCC 542
 631 TCCATTACCTAACAGGTAACAGGGCTACGGGAGTCCAGGAACAGTCACCTACCC 690
 543 TCCATTGCGCCAGCAGGGCTACGGGAGTCCAGGAACAGTCACCTACCC 602
 691 TCCATTGCGCCAGCAGGGCTACGGGAGTCCAGGAACAGTCACCTACCC 750
 603 GRCGCTCTGAGAACCCAGTGTATAAGCAGGAGCTGAGCTGCTCACAAAGGAGCTAG 662
 751 GRCGCTCTGAGAACCCAGTGTATAAGCAGGAGCTGAGCTGCTCACAAAGGAGCTAG 810
 663 AAGCAGAGGCCAGATGAGAAGCTGGCTGAGAGCTGGTGGAGACGGGCTATGAG 722
 811 AAGCAGAGGCCAGATGAGAAGCTGGCTGAGAGCTGGTGGAGACGGGCTATGAG 870
 723 AGCAGGTGAGGTGCGCCAGGAGGAGCCAAATGACTCGGGTACGGAGCT 782
 871 AGCAGGTGAGGTGCGCCAGGAGGAGCCAAATGACTCGGGTACGGAGCT 930
 783 TACATGAGCTCTGCAAGGAGATCATCGCAAGGGGAGAACATGACTCGGGTACGGAGCT 990
 931 TACATGAGCTCTGCAAGGAGATCATCGCAAGGGGAGAACATGACTCGGGTACGGAGCT 990
 843 CTGGAGAAGAGGTCTGAGACAGACAGCCGACATCTGCGCTGCCAGAGTACAG 902
 991 CTGGAGAAGAGGTCTGAGACAGACAGCCGACATCTGCGCTGCCAGAGTACAG 1050
 903 GACCTGGAGGAGCAGACTGGCAAGGAGCTGGCCACACTGGCCACAAATGAGTACATC 962
 1051 GACCTGGAGGAGCAGACTGGCAAGGAGCTGGCCACACTGGCCACAAATGAGTACATC 1110
 963 GCGCAGCTTGAGGAGCAGACTGGCAAGGAGCTGGCCACACTGGCCACAAATGAGTACATC 1022
 1111 GCGCAGCTTGAGGAGCAGACTGGCAAGGAGCTGGCCACACTGGCCACAAATGAGTACATC 1170
 1023 CCCCTGCCCCCCCCCTTACCAACCCACCTAACACGGCATCACAAACCGATC 1082
 1171 CCGCTGCCCCCCCCCTTACCAACCCACCTAACACGGCATCACAAACCGATC 1230
 1093 TCTTACCAACGAGATCCAGGTGACCAAGCTGCTCCACCCCTCTGCCACT 1142
 1231 TCTTACCAACGAGATCCAGGTGACCAAGCTGCTCCACCCCTCTGCCACT 1290
 1143 ATGCCCACTCTTACCAACCTCCATCTTCACGGACAGCCGCTGGAGAGAC 1202
 1231 ATGCCCACTCTTACCAACCTCCATCTTCACGGACAGCCGCTGGAGAGAC 1350
 1263 AACACCAACGCCCTACGGAGCTGTGCGGAGGAGACGGGCTGGGCTGGACCC 1322
 1411 AACACCAACGCCCTACGGAGCTGTGCGGAGGAGACGGGCTGGACCC 1470
 1323 GTATCCAGGAGAAGCTGGCTGCTTACTCTTCAAGGAGCTGGAGACAG 1382
 1471 GTCATCCAGGAGAAGCTGGCTGCTTACTCTTCAAGGAGCTGGAGACAG 1530
 1383 CAAGGGTTGGGACATTTGACGGGAACTACGGCTGGAGACATTTACTGGCTG 1442
 1531 CAAGGGTTGGGACATTTGACGGGAACTACGGCTGGAGACATTTACTGGCTG 1590

QY 1443 ACGAACCAAGGCACTACAACCTCTGTGACCATGGAGACTGGCTGCCGCAAGTC 1502
 1591 ACGAACCAAGGCACTACAACCTCTGTGACCATGGAGACTGGCTGCCGCAAGTC 1650
 1503 TTGCGATAACCGAGTTCCGCTGAGACCTGGAGGAGTATTAACTGTGGCTG 1562
 1651 TTGCGATAACCGAGTTCCGCTGAGGAGACTGAGTAACTGTGGCTG 1710
 1563 GGGGCTTACATGGCAATGGGGTGAATCTTACATGGCAACGGCAAGCAGTCACC 1622
 1711 GGGGCTTACATGGCAATGGGGTGAATCTTACATGGCAACGGCAAGCAGTCACC 1770
 1623 ACCTGGAGAGATCTGATGTTCTACAGAGAAACTGTGGCAACTAACAGGAGCT 1682
 1771 ACCCTGGAGAGATCTGATGTTCTACAGAGAAACTGTGGCAACTAACAGGAGCT 1830
 1683 TGGTGTATAACCTGCGCACTGAACTCAAGGGCTGTTACCCGGG35CCAT 1742
 1831 TGGTGTATAACCTGCGCACTGAACTCAAGGGCTGTTACCCGGG35CCAT 1890
 1743 TACCGGAGCGCTTACCCAGGAGTACTGGCTGAGTTCGAGGGTCTRACTCA 1802
 1891 TACGGAGCGCTTACCCAGGAGTACTGGCTGAGTTCGAGGGTCTRACTCA 1950
 1803 CTCAAGAAAGTGTGATGATGTCGACCGGCACTTCACCTCACCGGGTGTGTTACCGGGGGCCAT 1862
 1951 CTCAAGAAAGTGTGATGATGTCGACCGGCACTTCACCTCACCGGGGGCCAT 2010
 1863 CCCCTGCTGACCTCTGCTGGCCATTTGCAAGGAGCCACCTGTCGCTGCCAGCAC 1922
 2011 CCCCTGCTGACCTCTGCTGGCCATTTGCAAGGAGCCACCTTCCACTAACCCAGCTCC 2070
 1923 AAGAACAACTCTCACAGGTCTGAGCTGGCTGGAGGAGCCGATGTCGAGATCTG 1982
 2071 AAGAACAACTCTCACAGGTCTGAGCTGGCTGGAGGAGCCGATGTCGAGATCTG 2130
 1983 TTTCGGAAGTCACTGCAAGGGATGATGAGACTGATGATGATGAGCTGGTTTCTGTCCTCC 2042
 2131 TTTCGGAAGTCACTGCAAGGGATGATGAGACTGATGATGATGAGCTGGTTTCTGTCCTCC 2190
 2043 TACTTCTTCAACCGAGAGCCCTATGTCCTCCAGGACAGGACTACAGCAA 2102
 2191 TACTTCTTCAACCGAGAGCCCTATGTCCTCCAGGACAGGACTACAGCAA 2250
 2103 CTCTTCTTAAATAATAAGTCTCAACAAAGCA 2141
 2251 CTCTTCTTAAATAATAAGTCTCAACAAAGCA 2289

RESULT 8
 US-09-202-088A-1
 ; Sequence 1, Application US/09/202088A
 ; Patent No. 6551822
 ; GENERAL INFORMATION:
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillian, Kenneth
 ; APPLICANT: Borstein, David
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Roy, Margaret
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Tomas, Daniel
 ; APPLICANT: Schwall, Ralph
 ; TITLE OF INVENTION: TIE LIGAND HOMOLOGUES
 ; FILE REFERENCE: P1130PUS
 ; CURRENT APPLICATION NUMBER: US/09/202-088A
 ; CURRENT FILING DATE: 1998-12-08
 ; PRIOR APPLICATION NUMBER: PCT/US98/19093
 ; PRIOR FILING DATE: 1998-09-14
 ; NUMBER OF SEQ ID NOS: 35
 ; SEQ ID NO 1
 ; LENGTH: 2290
 ; TYPE: DNA

i - ORGANISM: Homo Sapiens
US-09-2022-088A-1

Query	Match	Score	Length	DB	Indels	Gaps
Qy	AATCTGGGTGCTGGACGCCCTGGAGATGAACCCAAACCTCTGACCTGGCGGCGT	98.1%	2132.6	4	0	0
Qy	3 AATCTGGGTGCTGGACGCCCTGGAGATGAACCCAAACCTCTGACCTGGCGGCGT	99.8%	2132.6	0	0	0
Qy	Best Local Similarity	99.8%	Pred. No.	0	M1 matches	
Qy	Matches 2135; Conservative	99.8%	4	0	0	0
Db	AATCTGGGTGCTGGACGCCCTGGAGATGAACCCAAACCTCTGACCTGGCGGCGT	151				
Qy	63 GCATCTAGGGAGGCCCTGGAGCTACTGTGAGGGAAAGAAGTTTGAGGAGCCCGAG	62				
Db	211 GCATCTAGGGAGGCCCTGGAGCTACTGTGAGGGAAAGAAGTTTGAGGAGCCCGAG	270				
Qy	123 ACCCTGGGCCCTGGAGCCAGCTGGAGCTACTGTGAGGGAAAGAAGTTTGAGGAGCCCGAG	182				
Db	271 ACCCTGGGCCCTGGAGCTACTGTGAGGGAAAGAAGTTTGAGGAGCCCGAG	390				
Qy	243 AGGCATCTGGAGGGCTTCATAGATTCTCATCAAGAAACCACTT	330				
Db	391 AGGCATCTGGAGGGCTTCATAGATTCTCATCAAGAAACCACTT	450				
Qy	303 AGGCAGCAGGAGGGAGAGGCTTCATAGATTCTCATCAAGAAACCACTT	362				
Db	451 AGGCAGCAGGAGGGAGAGGCTTCATAGATTCTCATCAAGAAACCACTT	510				
Qy	363 GCAAGAACATGAGGCCACTGTGCTGACATGCTGCTGGCTCCATG	422				
Db	511 GCAAGAACATGAGGCCACTGTGCTGACATGCTGCTGGCTCCATG	570				
Qy	423 GGAGCTGTCAGGGCAGGGCAGGAGGACGTTTGAGGCACTGAGGGCTGCCAGAG	482				
Db	571 GGAGCTGTCAGGGCAGGGAGGGCTTCAGGAGGACGTTTGAGGCACTGAGGGCTGCCAGAG	630				
Qy	483 TTCTATTACTAAACAGGTACAAAGGGGGGGGGGGTCCAGGAAGTGACTACAC	542				
Db	631 TTCTATTACTAAACAGGTACAAAGGGGGGGGGGGTCCAGGAAGTGACTACAC	690				
Qy	543 TTCTATTACTAAACAGGTACAAAGGGGGGGGGGGTCCAGGAAGTGACTACAC	602				
Db	691 TTCTATTACTAAACAGGTACAAAGGGGGGGGGGGTCCAGGAAGTGACTACAC	750				
Qy	603 GTGTTCTGGAGAACCGAGTCATAAGCAGGAGTAGAGGTGCTCAAATGAGGTCT	662				
Db	751 GTGTTCTGGAGAACCGAGTCATAAGCAGGAGTAGAGGTGCTCAAATGAGGTCT	810				
Qy	663 AAGGAGAAGGGGAGATCGAGACGGCTGCTGAGGGAGCTGGTGGAGGTGCT	722				
Db	811 AAGGAGAAGGGGAGATCGAGACGGCTGCTGAGGGAGCTGGTGGAGGTGCT	870				
Qy	723 AGCGAGGAGCTCTGGCAAGGAGGCCACATGACTCGGGTCACCGAGTC	782				
Db	871 AGCGAGGAGCTCTGGCAAGGAGGCCACATGACTCGGGTCACCGAGTC	930				
Qy	783 TACATGCACTCTTCACAGGATCTCCAAAGGGGAAACGGGTTGGAGCTCCAG	842				
Db	931 TACATGCACTCTTCACAGGATCTCCAAAGGGGAAACGGGTTGGAGCTCCAG	990				
Qy	903 GACCTGGACACAGTACCTGGACGCCACATGGCCACAACTAGAGTCATC	962				
Db	843 CTGGACACAGGATCTGGACGCCACATGGCCACAACTAGAGTCATC	1050				
Db	991 CTGGACACAGGATCTGGACGCCACATGGCCACAACTAGAGTCATC	1110				
Qy	1051 GACCTGGACACAGTACCTGGACGCCACATGGCCACAACTAGAGTCATC	1022				
Qy	963 GCGGAGCTGAGGGACTGCCAGGGTGCCTGGCCAGGCCGCCCCCAGGCCACC	1983				
Db	903 GACCTGGACACAGTACCTGGACGCCACATGGCCACAACTAGAGTCATC	2131				
Qy	1923 AAAGAACACTCTCACAGAGGCCCTCATGTCAGGAGGCCACCTGGATCTGT	2190				
Qy	2043 TACTTCCTCACACAGGCCCTCATGTCAGGAGGCCACCTGGATCTGT	2102				
Db	2191 TACTTCCTCACACAGGCCCTCATGTCAGGAGGCCACCTGGATCTGT	2250				

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/933, 821
 FILING DATE:
 CLASSIFICATION: 536
 ATTORNEY/AGENT INFORMATION:
 NAME: Dreger, Ginger R.
 REGISTRATION NUMBER: 33, 055
 REFERENCE/DOCKET NUMBER: P1130
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650/225-3216
 TELEFAX: 650/952-9881
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 3355 base pairs
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear

US-08-933-821-3
 Query Match Local Similarity 22.6%; Score 491.8; DB 2; Length 3355;
 Matches 836; Conservative 0; Mismatches 472; Indels 21; Gaps 4;
 QY 526 ACAAGTGCACCTCCTGAGGTCTACTGGGTCAGGGGCTCA 1802
 Db 588 AGAAATGTCATACACATTCCTGTACTGAAACAAGATAACAGGGCAATGTGTC 647
 QY 1743 TACCGGAGCCCTTACCAAGGAGGGAGTCACTGGGTCAGGGGCTCTACTCA 1890
 Db 1803 CTCAAGAAGTGTGTGATGATTCACCCGACCCACCTTCACTAGCCAGCTC 1862
 Db 1951 CTCAAGAAGTGTGTGATGATTCACCCGACCCACCTTCACTAGCCAGCTC 2010
 QY 1863 CCTCTCTGACCTCTCAGGAGTCATCTGAGCTGGGACCCCTCTGAGCTGGCACAGAC 1922
 Db 2011 CCTCTCTGACCTCTCAGGAGTCATCTGAGCTGGGACCCCTCTGAGCTGGCACAGAC 2070
 QY 1923 AAAGAACAACTCTCAGGAGTCATCTGAGCTGGGACCCCTCTGAGCTGGCACAGAC 1982
 Db 2071 AAAGAACAACTCTCAGGAGTCATCTGAGCTGGGACCCCTCTGAGCTGGCACAGAC 2130
 QY 1983 TTTCGAAGTCACTTGAGGAACTGAACTGATGAGTGGTTTCTGCCCC 2042
 Db 2131 TTTCGAAGTCACTTGAGGAACTGATGAGTGGTTTCTGCCCC 2190
 QY 2043 TACTTCTCTGACCCAGAGGAGGCCCTCACTCTCAGGAGGAGGAGCTAGACCA 2102
 Db 2191 TACTTCTCTGACCCAGAGGAGGCCCTCACTCTCAGGAGGAGCTAGACCA 2250
 QY 2103 CTCTCTTAAATAATTAGTCTCTACATAAAACA 2141
 Db 2251 CTCTCTTAAATAATTAGTCTCTACATAAAACA 2289
 QY 943 ACACCAATCAGAGATCTGCCGAGCTGAGGAGCTGCCAGAGGGTGCCTCGCCA 1002
 Db 1008 ATTAACATTCTGAGTATGTCACCTTGTGGAGAACATGTGCTGAGTATTTCCGAC 1067
 QY 1003 GGCGCGTCCCAGCCACCCCGCTGCCG-----CCCGGGTTACCAACCCCC 1055
 Db 1068 AAGACACCATGTCCTCCACTGTCAGGTTGACATCTCCAGAGATCAGAGTACAGGAGCTG 1115
 QY 1056 ACCTACACCGCATCATCAACCGATCTACACAGATCAGAGTACAGGAGCTG 1115
 Db 1128 AACAGTATACTCTGGTGTCTGGAGGTAAGAGATTCAGGGATCCAGGTATCCCA 1187
 QY 1116 AAGG----TGCCTCCACCCCTGCACTATGCCACTTCACAGGCCCTC-----C 1164
 Db 1188 GAGATTTATGCCACCACTGATCTGGACATCTCCACCAAAGCCCTTCAAGATAC 1247
 QY 1165 CATCTCCCGAGCCAGGGTCCGGCCATGGAGAGCTGCTGAGGCCCTGGAGATG 1224
 Db 1248 CACCGTAACTTCATCATGAAAGGACATTCAAGCAAGACTGTCAGCAAGAAAGCTG 1307
 QY 1225 GCCACGAAACAGCTCCATCTACTGGTGAAGCCGAGAAACCAACGGCTCATGAGG 1284

RESULT 10
 US-08-933-821-3
 ; Sequence 3, Application US/08933821
 ; Patent No. 5972338
 GENERAL INFORMATION:
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 TITLE OF INVENTION: Tie Ligands
 NUMBER OF SEQUENCES: 17
 CORRESPONDENCE ADDRESS:
 ADDRESSE: Genentech, Inc.
 STREET: 1 DNA Way
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 COMPUTER TYPE: 3.5 inch, 1.44 Mb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WinPatin (Genentech)

Db 1308 GGCATTCGGTCACTGGGATTATGATTAACTGAAACAGCAATGGCCAATGCGA 1367 ;
 Qy TGGGGTGGACCCAGAGGAGCACGACCCGGGACTGGGCGGTATCCTGGAGCGCCCTGGATG 1344 ;
 Db TATGGTGGAACACAGTTGGGCTGGGGTTGGACTGTGTTTGGATGAGAAAGAGAC 1427 ;
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 3355 base pairs
 ; TYPE: Nucleic Acid
 ; STRANDEDNESS: Single
 ; TOPOLogy: Linear
 ; US-08-910-507-3
 Query Match 22.6%; Score 491.8; DB 3; Length 3355;
 Best Local Similarity 62.9%; Pred. No. 1e-105; Indels 21; Gaps 4;
 Matches 836; Conservative 0; Mismatches 472;
 Db 1485 TCTGGTGACCATGGGAGCTGGGAAATGGAAATTATAGAAGGGTTGGAACATGAC 1524 ;
 Qy TATTGATGAACTTAGAGAGCCTGGGAAATGGAAATTATAGAAGGGTTGGAACATGAC 1547 ;
 Db 1548 GCTCTGGAACTTGAGGAGCTGGGAAATGGAAATTATAGAAGGGTTGGAACATGAC 1644 ;
 Qy TCTGGAACCTGAGGGGAGTTATAAGCTGGGCTGGGAACTGGGAAATGGAAATTAGAAG 1667 ;
 Db 1608 GCTCTGGAACTTGAGGAGCTGGGAAATGGAAATTATAGAAGGGTTGGAACATGAC 167 ;
 Qy GCGATACCTGGCTGGGCTGGGAGCTTACTGGTGCAGCAACGGGAACTCAAC 1404 ;
 Db 1488 GAGAATCTGGCTGGGAAATGGAAATTATAGAAGGGTTGGAACATGAC 1427 ;
 Qy TCTGGTGACCATGGGAGCTGGGAAATGGAAATTATAGAAGGGTTGGAACATGAC 1487 ;
 Db 1585 GTCGACTCCTTACATGCCAACGGGAGCAGGAGTCCACCACTGGCAGAGCTTC 1644 ;
 Qy GGGATTCTATGATGTTGGCTAAATGGTAACATTCACCACTGGCAGAGCTTC 167 ;
 Db 1645 TCTACACAGGAACACTGGCCCACTACCAAGAGGGAGCTGGTATAAGGCTTGCC 1704 ;
 Qy TCTACACAGGAACACTGGCCCACTACCAAGAGGGAGCTGGTATAAGGCTTGCC 1787 ;
 Db 1728 TGTATGCAAGGAACACTTCATTAAGGAGCTGGTGTGAGATGAGCTTGAC 1727 ;
 Qy ACTCCAACTTCACGGGCTCTGTTACCGGGGGGCTTACCGGGGGCTACCGAGGAC 1764 ;
 Db 1788 ATTCTAACTCTAAATGGTATGTTACAGAGGCTTACCTAAAGAAGTGTGAGA 1847 ;
 Qy 1765 GAGCTCTGGGTGAGTCCAGGGGCTTACCTAAAGAAGTGTGAGA 1824 ;
 Db 1848 GAAATTGTTGGGGCTAACTGGGCTTACACTCTAAAGAAGTGTGAGA 1907 ;
 Qy 1825 TCCGACCGA 1833 ;
 Db 1908 TCAGCTA 1916 ;
 ; RESULT 11
 ; US-08-910-507-3
 ; Sequence 3, Application US/08960507
 ; Patent No. 6037435
 ; GENERAL INFORMATION:
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; TITLE OF INVENTION: Tie Ligands
 ; NUMBER OF SEQUENCES: 24
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Genentech, Inc.
 ; STREET: 1 DNA Way
 ; CITY: South San Francisco
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94108
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WinPatin (Genentech)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/960, 507
 ; FILING DATE: 08/08/1996
 ; CLASSIFICATION: 536
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Dreyer, Ginger R.
 ; REFERENCE DOCKET NUMBER: 33, 055
 ; TELECOMMUNICATION INFORMATION:

Query Match 22.6%; Score 491.8; DB 4; Length 3355;
 Best Local Similarity 62.9%; Pred. No. 1e-105; Mismatches 472; Indels 21; Gaps 4;
 Matches 836; Conservative 0; Mismatches 472; Indels 21; Gaps 4;

QY	1405	GCGAATACCTGGCCCTGGAGACATTACTGCTGACCACCAAGGAACTAAC	1464
Db	1488	GAGAATACCTGGCCCTGGAGACATTACTGCTGACCACCAAGGAACTAAC	1547
QY	1465	TCTCTGTGACCATGGGAGCTGGTGGCCCAAAGCTTGCAAAATGCCAATTC	1524
Db	1548	TATTTGTTGATTAGAAGCTGAACTTATGTTGAAATTAAGATAATTAACT	1524
QY	1525	GCCTGGAACCTGGAGCTTAAAGCTGAGCTTAAAGCTGAGCTTAAAGCT	1584
Db	1608	GTCTGGAACCTGGAGCTTAAAGCTGAGCTTAAAGCTGAGCTTAAAGCT	1607
QY	1585	GTGATCCTTACATGGCAACGAAAGCAGTACCGCTGAGCTTAAAGCT	1644
Db	1668	GGGATCTATGATGTCGATATGTAACATTACCACTGAGCTGAGCTTAAAG	1727
QY	1645	TCTAACAGAAACTGGGACTGCCACTTCCAGAGGGCTGCTGGTATAAGCT	1704
Db	1728	TGTATGAGGAACTGGGACTGCCACTTCCAGAGGGCTGCTGGTATAAGCT	1787
QY	1705	ACTCCAACTCACCGGCTGGGCACTTACAGAGGGCTGCTGGTATAAGCT	1764
Db	1788	ATTCACACCTAAATGAGTCAAGTAACTGAGCTGAGCTGAGCTGAGCT	1847
QY	1765	GAGTGTACTGGCTGAGTTCGAGAGGGCTTACTCACTCAAGAAAGTGTGATG	1824
Db	1848	GAATTTCTGGCCGAAACAGAGGGCTGAGCTGAGCTGAGCTGAGCTGAG	1907
QY	1825	TCCGGCCGA 1833	
Db	1908	TCAACCTA 1916	

RESULT 12
 US-09-136-828-3

Sequence 3, Application US/09136828
 GENERAL INFORMATION:
 APPLICANT: Godowski, Paul J.
 TITLE OF INVENTION: The Ligands
 NUMBER OF SEQUENCES: 17
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 1 DNA Way
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080

COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WinPrtin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/136,828
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Dreicer, Ginger R.
 REGISTRATION NUMBER: 33,055
 REFERENCE DOCKET NUMBER: P1130R1A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650/952-3216
 TELEFAX: 650/952-9882
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 335 base pairs
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear

Query Match 22.6%; Score 491.8; DB 4; Length 3355;
 Best Local Similarity 62.9%; Pred. No. 1e-105; Mismatches 472; Indels 21; Gaps 4;
 Matches 836; Conservative 0; Mismatches 472; Indels 21; Gaps 4;

QY	526	ACAAAGTGACCATCACCTTGACGCCGAGCGGTACGGGGCGCCACTGCGCA	585
Db	588	AAGAATGTCATACATCTCTGTAACCTGACAAGATAACAGGGCAATCTGTGCA	647
QY	586	ACTCCAAAGGAACTGAGTGCCT--TGGAGAACAGTGTATAACAGGAGCTAGC	642
Db	648	ATACCAAGGGGAAAGTGCAGAATACATTAAAGACATGATACCAAGGATGAGCTGAA	707
QY	643	TCTCTACAATAGAGCTCTCAAGCAGAGCCAGATGAGCTGAGCTGCTGGTGA	702
Db	708	ACCTGAGGATGCTCTCCAGGAGCAGGAGATAGATGTTCTCAACTCTGGTGG	767
QY	703	AGGTGAGGGGCAATTGGACGGGTTGAGAGGCTGCTGGTGTGAGAAGGCTGAA	762
Db	768	ATGATAGATGGAACATGTGATGATGAGTGTGAGCTGAGTGTGAGAAGGCTGAA	827
QY	763	ACTCGCGGTTAGCGAGCTCTACATGAGCTGAGCTGAGCTGAGAAGGCTGAA	822
Db	828	ACTCTGTGTTACTGACTCTATGCAATTATTCTGAGTATTACGTTGAGTATCGTGTAGAGGATA	887
QY	823	ACCGGTGAGGCTCCAGTTGGAGACAGAGTCTGAGAATCATCGCAAGGGCA	882
Db	888	ATCTACTGTACTTCCAACCTGGAAACACAAATCTCACTCACACAGAATGTGA	947
QY	883	AGCTGCCAGGAACTCAAGAACCTGAGCTGAGCAAACTGACCAACCTGCCACTGCCC	942
Db	948	AGATGGCAACAGATAAGGGAACTAGAGGAAATAAGCTCTGACTATCTGTCA	1007
QY	943	ACACCAATCAGAGATCATCGGACCTTGGGAGACTGCAGAGGGTGGCTCGGCA	1002
Db	1008	ATAACCATCTGTGATGATCTCTTGTGAGAAGTGTGTTGAGATATTTCGAC	1067
QY	1003	GGCCCGTCCCCAGCACCCCGCTGCCCG-----CCCGGGCTACACACCC	1055
Db	1068	AAAGACACCCAGTGTGTCCTCCACACTGTGTCGGTGTGCCAACATATTCTAAAGCC	1127
QY	1056	ACCTACAAACCCATCATCAACAGAGCTCTTACCAACAGATCCAGAGTGTGACAGAACCTG	1115
Db	1128	ACAGATATACTCTGGCTCTGGGGAGTAACGAGATTAGGGATCCAGGTATGCCA	1187
QY	1116	AAGG----TCTGCAACCCCTCTGGGGAGTAACGAGATTAGGGATCCAGGTATGCCA	1164
Db	1188	GAGATTAATGCCACCACTCTGGCAACTCTCCACCAAAGCCCTTCAGATAC	1247
QY	1165	CATCTTCCACCGACAGCCGGGCCCATGGAGACTGCCTGAGGGCTGGAGATG	1224
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QY	1225	CCGAGACACAGCTCATCTACCTGGTGGAGGAGACACCAACGGCTCATCGAG	1284
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QY	1285	TGTGGTGCACAGACACCAACCCGGGGCTGGACCGTGTGAGAGGCTGAGCTGAG	1344
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Db	1428	GCTCTGTCACCTCTCAAGGAGGTTGGAGACATGAGCTGAGCTGAGCTGAG	1487
QY	1405	GCGAATACTGCTGCACCTGGAGAATCTACTGGGTGACCAACCAAGGCACTAAC	1464
Db	1488	GAGAATACTGGCTGACCTGGAGAATCTACTGGGTGACCAACCAAGGCACTAAC	1547
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us-10-018-386-1.rni

QY 1525 GCCTGAACTGGAGCGAGTATTAAGTGCGCTACCATGGCAATGGG 1584
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QY 1585 GTGACTCCTTACATGCACAGCGAACGGTGTGCGCTACCATGGCAATGGG 1644
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Db 1728 TGTATCGAGGAACCTGGCCACTTCTATAGAGGGCTGTGTTAAGCCCTGGCC 1787

QY 1705 ACTCCAACTCACCGGGTTGTTACCGGGGATTCGGAGCCCTCCAGGCC 1764
Db 1788 ATTCTAACATTAATGGTGTGAGGAGGCTACAGAGCAACGACCAAGATG 1847

QY 1765 GAGTCACTGGCTGAGTGTGAGGAGCTTACTCACTCAAGAAGTGTGATGCA 1824
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QY 1825 TCCGACCGA 1833
Db 1908 TCAAGCTTA 1916

RESULT 13
US-09-332-928A-3
; Sequence 3, Application US/0933-928A
Patent No. 638853

GENERAL INFORMATION:
APPLICANT: Godowski, Paul J.
Guiney, Austin L.
TITLE OF INVENTION: Tie Ligands
NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: PC-DOS/MS-DOS
WinPatin. (Genentech)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/332, 928A
FILING DATE: 14-Jun-1999
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/933, 821
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: P1130

TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/725-3216
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTIC:
LENGTH: 3355 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 3:

US-09-332-928A-3

Query Match Local Similarity 62.9%; Pred. No. 1e-105; Mismatches 472; Indels 21; Gaps 4; Matches 836; Conservative 0; Mismatches 472; Indels 21; Gaps 4;

QY 526 ACAGTGACCTACACCTTATGCCCCAGCGGGTACCGGTACATCGTCA 585
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QY 586 ACTCCAAAGGAACTGGCTGCGTC--TGGAGACCGAGTCATAAGCAGGAGTAGAGC 642
Db 648 ACACCAAGGGAAATGCAAGTACCTTAAGACATGATGTCACCGAGATGACCTGAA 707

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Db 828 ACTCTCTGTTACTCACTCTATGAAATTACATGAGATTCCGTAGAGGATA 887

QY 823 ACGGTGGAGCTCCAGCTGGAGACAGATCTGACCAAGAGGACATGTC 882
Db 889 ATTCACCTGAACTTCCAACTGAAACAAATCTCAATGTCACACAGAAATGTGA 947

QY 893 ACCTGGCAGCAGTAAAGGACCTGGAGCAAGTACACCCAGCTGGCAACACTGGCC 942
Db 948 AGATGGCACACAGATACAGGGACTAGAGGAGTAACGGGAAATACCC 1002

QY 943 ACACCACTCAAGATATCGCAGGTTGGAGCAAGTACACCCAGCTGGCC 1002
Db 1008 ATACCACTCTGATGATCACTTGTGGAAGAACGTCGTTGAGATTTTCGAC 1067

QY 1003 GGCGCGTCCCAGCCACCCCGCGCCCG-----CCCGGCTTCAACACC 1055
Db 1068 AACGACATCATGTCCTCCACTCTTCCAGGGACTAGAGGAGTAACCC 1127

QY 1056 ACCTACACGGCATCATCAACAGATOTCTACAMGGAGTCAGTGCAGGAGCTG 1115
Db 1128 AACGATTAFACTCTGGTGTGEGGAGTAACGAGATTCAGGGATCCAGGTATCCA 1187

QY 1116 AAGG----TGTGCCACCCCTGCCATATGCCACTTCACCGCTC---C 1164
Db 1188 GAGATTATGCCACCCCTGCACTTCCACCAAAAGCCCTTCAGATAC 1247

QY 1165 CATCTTCCACCGACAAGGCCGTGGCGCATGGAGAGCTGCTGCAAGGCCCTGGAGATG 1224
Db 1248 CACGGTACTTCATGAACTGAGGACATCAACGTCAGGAGCAAGAGCTG 1307

QY 1225 GCGACGACCCGCTCCATCTCTCTGGAGCCGGGAAACCAACGCCCTCATGGAG 1284
Db 1308 GGATTCTGCTACTGGGATTAATGTTAACTGAAACGAACTGAAATGCAACTG 1367

QY 1285 TGTGTCGACGAGGACGACGCCCGGGCTGGCGTCATCCAGGAGCCCTCGATG 1344
Db 1368 TATGTTGAAACAGTTGACCTGGGGTTGAGCTTATGAAAGAACRACG 1427

QY 1345 GCTCTGTTACTCTTGGACTGAGCTGGAGACCTACAGCAAGGGTTGGACATGACG 1404
Db 1428 GCTCTGTTACTCTTGGACTGAGCTGGGGTTGAGCTTATGAAAGGGTTGGACATGACG 1487

QY 1405 GCGATATCTGGCTGGCGACATTTACTGGTACGACAGGAACTACAAAC 1464
Db 1488 GAGAATACCTGGCTGGACTGAAATTCTATPATGCTGATGATATTACAGT 1547

QY 1465 TCCCTGGTACCTGGAGGACACTGCTCCGGCGAAAGCTGCGAGATACGCCAGTTCC 1524
Db 1548 TATGTTGAACTGGAGGAGCTGGGGCTACATGCAATGCG 1607

QY 1525 GCCTGAACTGGAGGAGGATATAGCTGGGGGGCGCTACATGCAATGCG 1584
Db 1608 GTCGGAACCTGAAAGGAAATTCTGACGCTGGAACTTACAGGAAACCG 1667

QY 1585 GTGACTCCTTACATGACACAACGGCAAGCAGTTCACCACTGGACAGAGATCATGATG 1644

RESULT 14
US-09-136-801-3
; Sequence 3, Application US/09136801
; Patent No. 6413770

GENERAL INFORMATION:

APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Botstein, David
APPLICANT: Goddard, Audrey
APPLICANT: Roy, Margaret
APPLICANT: Ferrara, Napoleone
APPLICANT: Tumas, Daniel
APPLICANT: Schwall, Ralph

TITLE OF INVENTION: Tie Ligand Homologues

NUMBER OF SEQUENCES: 35

CORRESPONDENCE ADDRESS:
ADDRESSEE: Gentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Gentech)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/136,801
FILING DATE:

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: P1130P2

TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/221-3216
TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 335 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear

Db 1668 GGGATCTTATGATGTGGCTATAATGTTAACAACTACCAACAGTGACAGAGATA 1727
Qy 1645 TCTAACAGGAACCTGTCGCACTAACAGAGGGCTGGTATAACGCCGTGCC 1704
Db 1728 TGTATCGAGAACCTGCACCTTCTATAAGGA 1787
Qy 1705 ACTCCAACTCAACGGGCTCTGTAACCGGGGCCATTACCGGAGCCTACAGGAGC 1764
Db 1788 ATCTTAACCTAATGGAGTAGTGTACAGAGGAGCCATTACAGAGCAGCACAGT 1847
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Qy 1825 TCGGACGA 1833
Db 1908 TCAGGCTTA 1916

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Qy      526 ACAAGTGCACTACACCTGATGCCCCAGCACGGGTACGGGTGCCATCTCGTCA 585
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Sbjt   629 96; Score 491.8; DB 4; Length 3355;
       Best Local Similarity 62.9%; Pred. No. 1e-10;
       Matches 836; Conservative 0; Mismatches 1472; Indels 21; Gaps 4

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 Db 1908 TCAAGCCTA 1916

RESULT 15
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 Sequence 3, Application US/09332929
 General Information:
 - APPLICANT: Godowski, Paul J.
 - APPLICANT: Gurney, Austin L.
 - TITLE OF INVENTION: Tie Ligands
 - NUMBER OF SEQUENCES: 17
 - CORRESPONDENCE ADDRESS:
 - ADDRESSEE: Genentech, Inc.
 - STREET: 1 DNA Way
 - CITY: South San Francisco
 - STATE: California
 - COUNTRY: USA
 - ZIP: 94080

COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Winpatin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/332, 929
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 FILING DATE:
 ATTORNEY / AGENT INFORMATION:
 NAME: Dreger, Ginger R.
 REGISTRATION NUMBER: 33, 055
 REFERENCE/DOCKET NUMBER: P1130
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650/235-3216
 TELEFAX: 650/952-9881
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 335 base pairs
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear
 US-09-332-929-3

Query Match 22.6%; Score 491; DB 4; Length 3355;
 Best Local Similarity 62.9%; Pred. No. 1e-105; Indels 21; Gaps 4;
 Matches 836; Conservative 0; Mismatches 472; Delins 21; Gaps 4;

QY 526 ACGATGCACTACACCTTCATGTGCCACAGGGCTACGGGTGCGCATCGCGTC 585
 Db 588 AGAATGTCATACACATTCTCGTACCTGACAAGAAATACAGGCCATCTGTGCA 647
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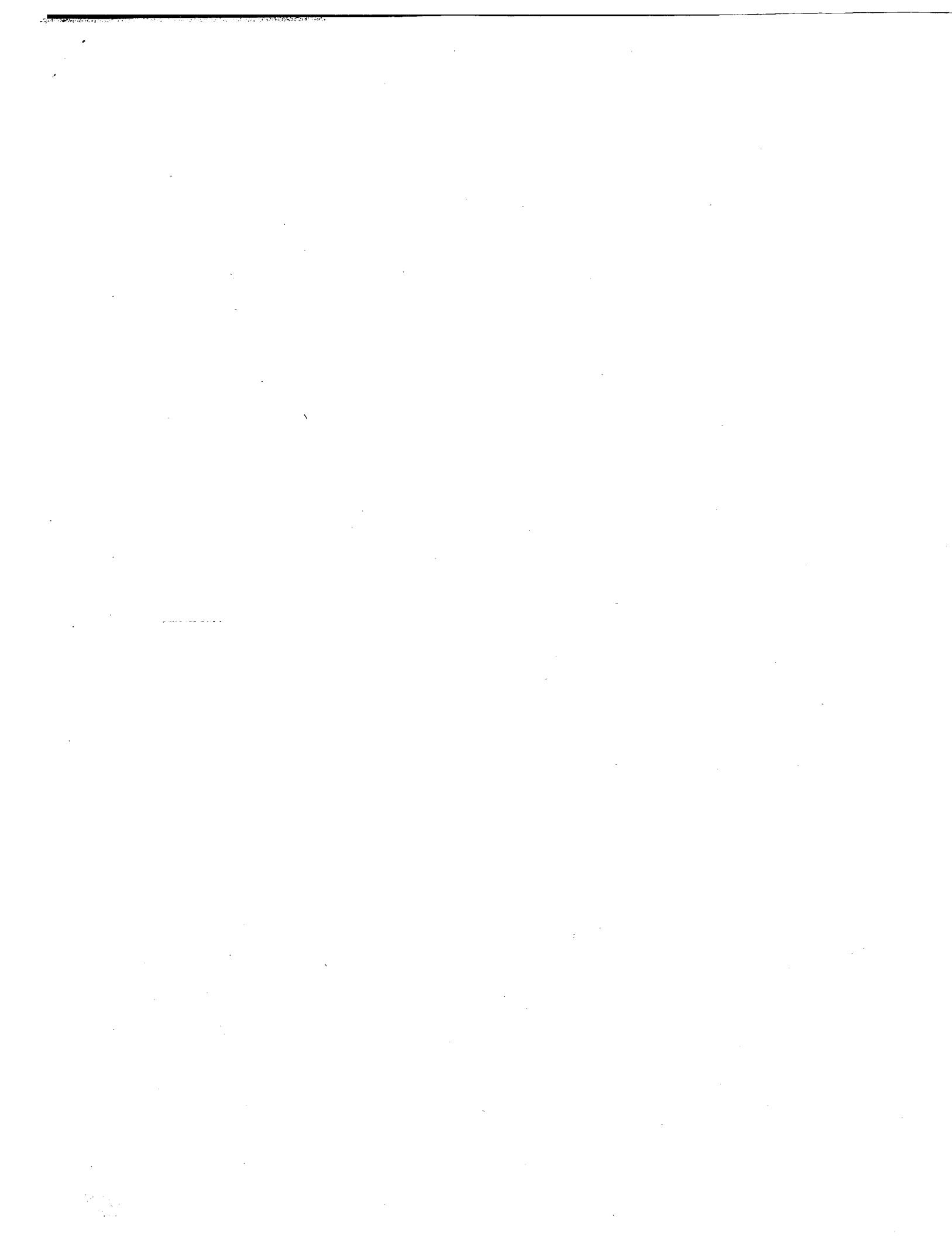
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 Db 888 ATTCACTGACTTCCACCTGGAGAACAAATCTCAATGCAAGAATGTTGA 947
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Mon Aug 9 10:30:08 2004

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Page 19

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Job time : 172 secs



GenCore version 5.1.6
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Om nucleic - nucleic search, using sw model

Run on: August 6, 2004, 16:43:28 ; Search time 976 Seconds
(without alignments) 1991.520 Million cell updates/sec

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Perfect score: 2173

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Scoring table: IDENTITY.NUC

Gapop 10.0 , Gapext 1.0

Searched: 3222919 seqs, 2451570024 residues

Total number of hits satisfying chosen parameters: 6445838

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Maximum DB seq length: 200000000

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Maximum Match 100%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2132.5	98.1	2290	13 US-10-147-493-267 Sequence 267, App
3	2132.6	98.1	2290	13 US-10-145-127-267 Sequence 267, App
4	2132.6	98.1	2290	13 US-10-160-503-267 Sequence 267, App
5	2132.5	98.1	2290	13 US-10-143-118-267 Sequence 267, App
6	2132.6	98.1	2290	13 US-10-144-993-267 Sequence 267, App
7	2132.6	98.1	2290	13 US-10-158-787-267 Sequence 267, App
8	2132.6	98.1	2290	13 US-10-140-808-267 Sequence 267, App
9	2132.6	98.1	2290	13 US-10-140-808-267 Sequence 267, App
10	2132.6	98.1	2290	13 US-10-152-405-267 Sequence 267, App
11	2132.6	98.1	2290	13 US-10-127-852A-267 Sequence 267, App
12	2132.6	98.1	2290	13 US-10-127-900A-267 Sequence 267, App
13	2132.6	98.1	2290	13 US-10-128-685A-267 Sequence 267, App
14	2132.6	98.1	2290	13 US-10-131-8820A-267 Sequence 267, App

RESULT 1
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; Sequence 11, Application US/09818143
; Patent No. US20020019000A1
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmar, Wayne M.
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: POLYNUCLEOTIDES COEXPRESSED WITH MATRIX-REMODELING GENES
; FILE REFERENCE: PB-0004 CIP
; CURRENT APPLICATION NUMBER: US/09/818,143
; CURRENT FILING DATE: 2001-03-26
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PERL Program
; SEQ ID NO: 11
; LENGTH: 2288
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: -
; OTHER INFORMATION: 2268890CBI

Query Match 98.8%; Score 2146.2; DB 9; Length 2288;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2154; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

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OY 3 AAATGAGGCTGGGGGGCGGTGAGATGACCCAAAGGCCCTGGACTCTGGCAGCGTG 62
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OY 133 GCACTGAGGCGAGGGCTGACGTACTGAGGAAGAGGTGCTGAGGAGCCCGAGG 192
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QY 193 ACCCTGGCCAGGCTGGCCCCAGGCTCTGGAGGAGGCCCTCTGGAGGAGGCCAGTG 252

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QY	363	GCAGAGCCTAGGGACTTGGGACACTCTGAGGAGGTTAGGGCTGCCAAGAG	Db	1443 AGGACAGGAACTACAACCTCTGAGGAGGACTCCAGGAGGCTGCCAAGAG
Db	433	GCAGAGCCTAGGGACTTGGGACACTCTGAGGAGGTTAGGGCTGCCAAGAG	Db	1513 AGGACAGGAACTACAACCTCTGAGGAGGACTCCAGGAGGCTGCCAAGAG
QY	423	GGAGCTGTTGAGGGCTGAGGAGGTTAGGGACTAGGAGGAGGCTGCCAAGAG	Db	1503 TTGCAAGATACTCCAGTTCCGGCTGAGGAGGATTTAAAGCTGGCGCTG
Db	493	GGAGCTGTTGAGGGCTGAGGAGGTTAGGGACTAGGAGGAGGCTGCCAAGAG	Db	1573 TTTCAGATACTCCAGTTCCGGCTGAGGAGGATTTAAAGCTGGCGCTG
QY	483	TTCATTTACCTAACAGTACAGTCAAGCGGGGGAGTCCAGGAGCTACACC	Db	1563 GGSCTGACATGCTGAGGAGGCTGAGGAGGCTGCCAAGAG
Db	553	TTCATTTACCTAACAGTACAGTCAAGCGGGGGAGTCCAGGAGCTACACC	Db	1633 GGGCTGACATGCTGAGGAGGCTGAGGAGGCTGCCAAGAG
QY	543	TTCATTTGCCCCAGCGGCTCACGGGCTGAGGAGGCTGCCAAGAG	Db	1623 ACCTGAGCAGAGATCTGATGCTGAGCAGAACCTGGGCTACGGAGCTG
Db	613	TTCATTTGCCCCAGCGGCTCACGGGCTGAGGAGGCTGCCAAGAG	Db	1693 ACCTGAGCAGAGATCTGATGCTGAGCAGAACCTGGGCTACGGAGCTG
QY	603	GGCTTCTGGAGAACCGGAGGTCATAACAGAGGCTAGAGCTGCTAACATGAGTC	Db	1683 TGGGGATAACGCCATTCCGGCTGAGGAGGATTTAAAGCTGGCGCTG
Db	673	GGCTTCTGGAGAACCGGAGGTCATAACAGAGGCTAGAGCTGCTAACATGAGTC	Db	1753 TTGGGATAACCCCTGGCCACTCTCAACCTAACCGGTRTGTTACCGGGG
QY	663	AAGCAGAGCGGAGATGAGGAGGAGGCTGAGGAGGCTGCCAAGAG	Db	1743 TACGGGAGCGCTTACCGAGGAGGTTACTGGCTGAGTTCGAGGAGGCTTA
Db	733	AAGCAGAGCGGAGATGAGGAGGAGGCTGAGGAGGCTGCCAAGAG	Db	1803 TACGGAGAAGTGTGATGATGTCAGGAGGACTACGGCTGAGGAGGCTTA
QY	723	AAGCAGAGCGGAGATGAGGAGGAGGCTGAGGAGGCTGCCAAGAG	Db	1862 CTCAGAAGTGTGATGATGTCAGGAGGACTACGGCTGAGGAGGCTTA
Db	793	AAGCAGAGCGGAGATGAGGAGGAGGCTGAGGAGGCTGCCAAGAG	Db	1873 CTCAGAAGTGTGATGATGTCAGGAGGACTACGGCTGAGGAGGCTTA
QY	783	TATATGCGGCTCTGCAGAGATCATCGCAAGGAGCACCGCTGGAGCTCTCCAG	Db	1863 CCCTCTGACCTCTGGCCATTGCGAGGAGCCACCTGACAGCAC
Db	853	TATATGCGGCTCTGCAGAGATCATCGCAAGGAGCACCGCTGGAGCTCTCCAG	Db	1933 CCCTCTGACCTCTGGCCATTGCGAGGAGCCACCTGACAGCAC
QY	843	CTGGAGAACAGATCTGAGAACAGACGCCAGCATGCTGAGCTGCCAGAACAG	Db	1923 AAGAACACTCTCACGTTATCTGAGCTGGAGGAGGGATGCTGGATCTG
Db	913	CTGGAGAACAGGAGCTGAGAACAGACGCCAGCATGCTGAGCTGCCAGAACAG	Db	1993 AAAGAACACTCTCACGTTATCTGAGCTGGAGGAGGGATGCTGGATCTG
QY	903	GACCTGGAGAACAGTACAGAACGACTGCCAACATGCTGCCAACAAATGAGATC	Db	2053 TTTCGAACTGAGGATGATGAACTGATGAGATGAGATGAGATGAGATGAGATG
Db	973	GACCTGGAGAACAGTACAGAACGACTGCCAACATGCTGCCAACAAATGAGATC	Db	2043 TACTTCTCAGACCCAGAGGCTCATGCTCCAGGAGGACTACAGACAA
QY	963	GCGGAGCTTGGGGACTGCGAGGGTGCCTCGCCAGGGCCCTCCAGGCC	Db	2113 TACTTCTCAGACCCAGAGGCTCATGCTCCAGGAGGACTACAGACAA
Db	1003	GCGGAGCTTGGGGACTGCGAGGGTGCCTCGCCAGGCCCTCCAGGCC	Db	2103 CTCTTCTTAAATAATAAGTGTCTCAATAAAACACACTGCAAGAAAAAAA
QY	1023	CCCGCTGCGCCGCGCCGGCTACCAACACCACTAACACGCTCATACCGATC	Db	2162 2172 2232
Db	1093	CCCGCTGCGCCGCGCCGGCTACCAACACCACTAACACGCTCATACCGATC	Db	2173 CTCTTCTTAAATAATAAGTGTCTCAATAAAACACACTGCAAGAAAAAAA
QY	1053	TCTACCAACGAGGATTCAGATGAGGAGGCTGCTGCCAACCCCTGCGCACT	Db	2163 AAAAAA 2169
Db	1153	TCTACCAACGAGGATTCAGATGAGGAGGCTGCTGCCAACCCCTGCGCACT	Db	2233 ATATACA 2239
				RESULT 2
	1143	ATGCCCACTCTCACCGCCATCTTCACCGACAGGGCTGGCCATGGAGAGAC		US-10-147-493-267
	1213	ATGCCCACTCTCACCGCCATCTTCACCGACAGGGCTGGCCATGGAGAGAC		; Sequence 267, Application US/10147493
	1203	TGCTGCAACCTGGAGGATGCCAACACAGCTCATACTGGTGAAGGGAG		; Publication No. US20040029217A1
	QY			; GENERAL INFORMATION:
				; APPLICANT: Baker, Kevin P.
				; APPLICANT: Beresini, Maureen
				; APPLICANT: DeForge, Laura

APPLICANT: Desnoyers, Luc
 APPLICANT: Filvaroff, Allen
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerritsen, Mary B.
 APPLICANT: Goddard, Audrey
 APPLICANT: Gurney, Austin L.
 APPLICANT: Sherwood, Steven
 APPLICANT: Smith, Victoria
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watansabe, Colin K.
 APPLICANT: Wood, William
 APPLICANT: Zhang, Zenin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 TITLE OF INVENTION: ACIDS ENCODING THE SAME
 FILE REFERENCE: P313-031C345
 CURRENT APPLICATION NUMBER: US/10/147,493
 CURRENT FILING DATE: 2002-05-17
 prior Application removed - See File Wrapper or Palm
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO: 267
 LENGTH: 2290
 TYPE: DNA
 ORGANISM: Homo Sapien
 S-10-147-493-267

Query Match: 99.1%; Score: 2132; DB: 13; Length: 2290;
 Best Local Similarity: 99.8%; Pred. No.: 0; Mismatches: 0; Indels: 0; Gaps: 0;

Matches: 2135; Conservative: 0; MisMatches: 4; Indels: 0; Gaps: 0;

Match Number	Sequence	Start Position	End Position	Score
3	AAATGAGCTCTGGCGACGCCGAGCTGAGATGAA	1	62	903
151	AAATGAGCTCTGGCGACGCCGAGCTGAGATGAA	1	210	903
63	GCACTGGGGGGGGTGAACCTACTCTGAGGAAAGAAGGTG	1	122	903
211	GCACTGAGCCAGGGCTGAGCTACTGTGAGGAAAGAAGGTG	1	270	903
123	ACCCCTGCGAGCCCTGGCCAGCCTCTGGGGAGGAGCGAGG	1	182	903
271	ACCCCTGCGAGCCCTGGCCAGCCTCTGGGGAGGAGCGAGG	1	330	903
183	GAGCCGATGAGGGAGGGCTTGGACCCGCCTCAACTCAGGAA	1	242	903
331	GAGCCGATGAGGGAGGGCTTGGACCCGCCTCAACTCAGGAA	1	390	903
243	AGGCATGGAGAGGTGCCGCTGAGGGCAGGTTGAACTGAGG	1	302	903
391	AGGCATGGAGAGGTGCCGCTGAGGGCAGGTTGAACTGAGG	1	450	903
303	AGCCAGAGAGGGAGGAGCTTCATAGATTCTACAAAGATAACC	1	362	903
451	AGCCAGAGAGGGAGGAGCTTCATAGATTCTACAAAGATAACC	1	510	903
363	GCAAGAGCCATGAGGCCACTGTGCGTACAGTGTGCTG	1	422	903
511	GCAAGAGCCATGAGGCCACTGTGCGTACAGTGTGCTG	1	570	903
423	GGAGCTGTCAGGGCAAGGAGACGTTGAGGSCATCTAGAGG	1	482	903
571	GGAGCTGTCAGGGCAAGGAGACGTTGAGGCTGCGCAGAG	1	630	903
483	TTCATTTACTAACAGGACAACGGGGCATCTGCTCAACTC	1	542	903
631	TTCATTTACTAACAGGACAACGGGGCATCTGCTCAACTC	1	690	903
543	TTCATTTACTAACAGGACAACGGGGCATCTGCTCAACTC	1	602	903
691	TTCATTTACTAACAGGACAACGGGGCATCTGCTCAACTC	1	750	903
603	GGCTCTTGAGAACCGGAGTGTAGAGGTGTCACAACTAC	1	662	903
1771	ACCTGAGAGAGATCATGATGTCACAGGAAACTGTGCCC	1	1830	903
1711	GGGGCTTACATGCTGCGGCTGACTCTTACATGGCACACGG	1	1770	903
1623	ACCTGAGAGAGATCATGATGTCACAGGAAACTGTGCCC	1	1682	903
1771	ACCTGAGAGAGATCATGATGTCACAGGAAACTGTGCCC	1	1742	903
1831	TGGTGTATAACGGCTGCGCAACTCIAACGGGTCTGTG	1	1900	903

Db 1291 ATGCCCACTCTTACCCAGCCTCCATCTTCCACCGACAGCCGTCGGGCCCATGGAGAGC 1350
 Qy 1203 TGCCTGAGGCCCTGGAGGAATGGCAGCACCACTCTTCCATCTTCCACCGACAGCCGTCGGGCC 1262
 Db 1351 TGCCCTGAGGCCCTGGAGGAATGGCAGCACCACTCTTCCATCTTCCACCGACAGCCGTCGGGCC 1410
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanebe, Colin K.
 ; APPLICANT: Wood, William
 ; APPLICANT: Zemlin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; TIME OF INVENTION: ACIDS ENCODING THE SAME
 ; FILE REFERENCE: P2330RJIC446
 ; CURRENT APPLICATION NUMBER: US/10/160,503
 ; CURRENT FILING DATE: 2002-05-30
 ; NUMBER OF SEQ ID NOS: 550
 ; SEQ ID NO: 267
 ; LENGTH: 2290
 ; TYPE: DNA
 ; ORGANISM: Homo Sapien
 us-10-160-503-267

Query	Match	98.1%	Score	2132.6	DB	13	Length	2290																																													
	Best Local Similarity	99.8%	Pred.	No: 0;			Caps	0;																																													
	Matches	2135;	Conservative	0;	Mismatches	4;	Indels	0;																																													
Qy	3	AATAGGGCTGTGGACGCCCTGTGAGGATGACCCCAAGGCTTGACCTGGAGGTG 62	Db	1771	ACCCGGAGACAGAGATCATGATGTCACAGGAACTGTGGCCACTACAGGAGG 1830	Qy	1683	TGGGTTAATACGCCCTGGCCACTCAACCTCACGGGTCTGTGATACCGGGGGCAT 1742	Db	1831	TGGGTTAATACGCCCTGGCCACTCAACCTCACGGGTCTGTGATACCGGGGGCAT 1890	Qy	1743	TACCGAGCGCTACAGGAGGACTACGGGGTGAGTCCGGGAGGCTTACTCA 1802	Db	1891	TACCGAGCGCTACAGGAGGACTACGGGGTGAGTCCGGGAGGCTTACTCA 1950	Qy	1803	CTCAAGAAAGTGGCTATGATGATCCAGGAAACCTTCACTRAGCCGCTCC 1862	Db	1951	CTCAAGAAAGTGGCTATGATGATCCAGGAAACCCACACTAACGCACTCC 2010	Qy	1863	CCTCTGACTCTGTGGCATCCAGGAGCCACCTGGCTCGCTGCCAGAC 1922	Db	2011	CCCTCTGACTCTGTGGCATCCAGGAGCCACCTGGCTCGCTGCCAGAC 2070	Qy	1923	AAAGACAACCTCTAACAGGTCATCTGAGCTGGAGACGGGATGTGATCTGT 1982	Db	2071	AAAGACAACCTCTAACAGGTCATCTGAGCTGGAGACGGGATGTGATCTGT 2130	Qy	1983	TTTCGGAAAGTCACGCGGATGTGGACTGTGATCGATACTGGTTTCTGCCCC 2042	Db	2131	TTTCGGAAAGTCACGCGGATGTGGACTGTGATCGATACTGGTTTCTGCCCC 2190	Qy	2043	TACCTTCCTCACCCAGCAGGCCCTCGTCAGTCAGGAGCAGGACTAGACAA 2102	Db	2191	TACCTTCCTCACCCAGCAGGCCCTCGTCAGTCAGGAGCAGGACTAGACAA 2250	Qy	2103	CTCTCTTAAATTAATTAGTCCTACATAAAAACA 2141	Db	2251	CTCTCTTAAATTAATTAGTCCTACATAAAAACA 2289

RESULT 4
 US-10-160-503-267
 ; Sequence 267, Application US/10-160503
 ; Publication No. US2004003359A1
 ; GENERAL INFORMATION:

Db	151	AAATGAGGCTGCTCGGAGCGGCTGAGGATGACCCAAAGGCCCTGGACTCCGAGCGTG	210	QY	1143	ATGCCCACTTCACCGCCCTCCATCTTCCACCGACAAACCGTGGGCCATGGAGAAC	1202
QY	63	GCGCTGAGGCGAGGGCTGAGCTACTGTGAGGAAGAAGGTTGAGCACCCCGAGG	122	Db	1291	ATGCCCACTTCACCGCCCTCCATCTTCCACCGACAAACCGTGGGCCATGGAGAAC	1350
Db	211	GCAGTGAGGCGAGGGCTGAGCTACTGTGAGGAAGAAGGTTGAGCACCCCGAGG	270	QY	1203	TGCCCGAGGCCCTGGAGATGGCACCAGCACAGCTCATCTACCTGTGAGGCCAG	1262
QY	123	ACCCCTGCGCCAGGCTGCGCTGAGCTACTGTGAGGAAGAAGGTTGAGCACCCCGAGG	182	Db	1351	TGCCCGAGGCCCTGGAGATGGCACCAGCACAGCTCATCTACCTGTGAGGCCAG	1410
Db	271	ACCCCTGCGCCAGGCTGCGCTGAGCTACTGTGAGGAAGAAGGTTGAGCACCCCGAGG	330	QY	1263	AACACAA CGCCCTGGAGATGGCACCAGCACAGCTCATCTACCTGTGAGGCCAG	1322
QY	183	GACCCAGCTGAGGAGCGGCTGCTTGAGGACACCGGCTGACTCGAGAACCCCTGGAG	242	Db	1411	AACACCA CGCCCTGGAGATGGCACCAGCACAGCTCATCTACCTGTGAGGCCAG	1470
Db	331	GACCCAGCTGAGGAGCGGCTGCTTGAGGACACCGGCTGACTCGAGAACCCCTGGAG	390	QY	1323	GTCATCCAGAGACCCCTGGAGATGGCACCAGCACAGCTCATCTACCTGTGAGGCCAG	1382
QY	243	AGCCCATGCAAGCTGCCCCGTGACCGCCAGGGAGAGATGTGAGGAAGGCGCCGG	302	Db	1471	GTCATCCAGAGACCCCTGGAGATGGCACCAGCACAGCTCATCTACCTGTGAGGCCAG	1530
Db	391	AGCCCATGCAAGCTGCCCCGTGACCGCCAGGGAGAGATGTGAGGAAGGCGCCGG	450	QY	1383	CAAGGTTGGAGACATGACGGCAATACTGGTGGGGAGAAATTACTGGTG	1442
QY	303	AGCAAGGAGCATGGCTACTGTGAGGCTGAGCTTGAGGCTGCGGACTGCGCTCATG	362	Db	1531	CAAGGGTTGGAGACATGACGGCAATACTGGTGGGGAGAAATTACTGGTG	1590
Db	451	AGCAAGGAGGAGGAGGAGGCTGAGCTCATAGTCATTCATCAAGAATACACATT	510	QY	1443	ACGAAACAGGCAACTACAACCTCTGGACCATGGAGACTGGTCCGGCAACTTC	1502
QY	363	GCAAGGAGCATGGCTACTGTGAGGCTGAGCTTGAGGCTGCGGACTGCGCTCATG	422	Db	1591	ACGAAACAGGCAACTACAACCTCTGGACCATGGAGACTGGTCCGGCAACTTC	1650
Db	511	GCAGGAGCATGGCTACTGTGAGGCTGAGCTTGAGGCTGCGGACTGCGCTGTGAG	570	QY	1503	TTCGAGAATACGGCAGTTGGCTGGAGACTGAGGTTTACCTCCAAAGAGG	1562
QY	423	GGAGCTGTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	482	Db	1651	TTGAGAATACGGCAGTTGGCTGGAGACTGAGGAGGAGGAGGAGGAGGAGG	1710
Db	571	GGAGCTGTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	630	QY	1563	G3GCGCTTACCATGCGCAATGGGGGACTCTTACATGCGCACAGTGGACCTAAC	1622
QY	483	TGCAATTACAAACGGTAACTGAGTAAAGCAGGAGGAGGAGGAGGAGGAGGAGG	542	Db	1711	GGGCGCTTACCATGCGCAATGGGGGACTCTTACATGCGCACAGTGGACCTAAC	1770
Db	631	TGCAATTACAAACGGTAACTGAGTAAAGCAGGAGGAGGAGGAGGAGGAGGAGG	690	QY	1623	ACCCCTGGAGATCTGAGTCTACAGGAAACTGGCCACTACAGAGGGAGGAGG	1682
QY	543	TGCAATTACAAACGGTAACTGAGTAAAGCAGGAGGAGGAGGAGGAGGAGGAGG	602	Db	1771	ACCCCTGGAGATCTGAGTCTACAGGAAACTGGCCACTACAGAGGGAGGAGG	1830
Db	691	TGCAATTACAAACGGTAACTGAGTAAAGCAGGAGGAGGAGGAGGAGGAGGAGG	750	QY	1683	TGGTGTATACGGTGTGGCACTTACACCTGAGGGCTGAGGTGAGGGAGGAGG	1742
QY	603	GTGCTCTGGAGACCGAGTGTGAGATCTGAGGAGGAGGAGGAGGAGGAGGAGG	662	Db	1831	TGGTGTGTATACGGTGTGGCACTTACACCTGAGGGCTGAGGTGAGGGAGG	1890
Db	751	GTGCTCTGGAGACCGAGTGTGAGATCTGAGGAGGAGGAGGAGGAGGAGGAGG	810	QY	1743	TACCGGGCGCTTACAGGAGGGAGTCTACTGGGTGAGGTGAGGGAGGAGG	1802
QY	663	AAAGCAGAGGCGGAGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	722	Db	1891	TACCGGGCGCTTACAGGAGGGAGTCTACTGGGTGAGGTGAGGGAGGAGG	1950
Db	811	AAAGCAGAGGCGGAGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	870	QY	1803	CTCAAGAAGATGGTGTGAGTGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGG	1862
QY	723	AAAGCAGAGGCGGAGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	782	Db	1951	CTCAAGAAGATGGTGTGAGTGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGG	2010
Db	871	AAAGCAGAGGCGGAGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	930	QY	1863	CCCTCTGACTCTCTGCGSCATGGCGAGGCCACCTCCACCTAACGGGTCTGAG	1922
QY	783	TACATGAGGCTCTGCGAGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	842	Db	2011	CCCTCTGACTCTCTGCGSCATGGCGAGGCCACCTCCACCTAACGGGTCTGAG	2070
Db	931	TACATGAGGCTCTGCGAGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	990	QY	1923	AAAGACAACTCTCACAGTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1982
QY	843	CTGGAGAACAGGAGCTCTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	902	Db	2071	AAAGACAACTCTCACAGTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2130
Db	991	CTGGAGAACAGGAGCTCTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1050	QY	1983	TTCCGAGTCACTCGAGGGATGATGAGTGGATGAGTGGATGAGTGGATGAGTGG	2042
QY	903	GACCTGGAGACAGTACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	962	Db	2131	TTCCGAGTCACTCGAGGGATGATGAGTGGATGAGTGGATGAGTGGATGAGTGG	2190
Db	1051	GACCTGGAGACAGTACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1110	QY	2043	TACTTCTCTCACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2250
QY	953	GCCGAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1022	Db	2191	TACTTCTCTCACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2102
Db	1111	GCCGAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1170	QY	2103	CCTCTCTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	2141
QY	1023	CCCGCTGCCGCCGGCTTACCAACCAACCCACCTACACCGCATCATACCAACCA	1082	Db	2251	CCTCTCTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	2289
Db	1171	CCCGCTGCCGCCGGCTTACCAACCAACCAACCCACCTACACCGCATCATACCAACCA	1230	QY	1231	TCTACCAACGAGATCCAGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1142

Publication No. US20040038336A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin P.
 APPLICANT: Beresini, Maureen
 APPLICANT: DeJorge, Laura
 APPLICANT: Desnoyers, Luc
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerritzen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Sherwood, Steven
 APPLICANT: Smith, Victoria
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K
 APPLICANT: Wood, William
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 TITLE OF INVENTION: ACIDS ENCODING THE SAME
 FILE REFERENCE: P3330R1C261

CURRENT APPLICATION NUMBER: US/10/144,993
 CURRENT FILING DATE: 2002-05-13
 PRIOR Application removed - See File Wrapper or Palm
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO: 267
 LENGTH: 2290
 TYPE: DNA
 ORGANISM: Homo Sapien
 US-10-144,993-267

Query Match: 98.1%; Score: 2132.6; DB: 13; Length: 2290;
 Best Local Similarity: 99.8%; Pred. No.: 0; Mismatches: 0; Indels: 0; Gaps: 0;
 Matches: 2135; Conservative: 0;

Qy 3 AAATGAGGTGCTGGAGGGCTGAGATGACCCAAAGCCAAAGCCTGACCTCCGAGGTCG 62
 Db 151 AAATGAGGTGCTGGAGGGCTGAGATGACCCAAAGCCAAAGCCTGACCTCCGAGGTCG 210

Qy 63 GCACTGAGCCAGGCCCTACGCTACTGGAGGAAGAGGTGTGACGCCAGCCAGG 122
 Db 211 GCACTGAGCCAGGCCCTACGCTACTGGAGGAAGAGGTGTGACGCCAGCCAGG 270

Qy 123 ACCCTGGCAGCCCTGGCGAGCCCTGCGCGAGGCCCTCTGGAGGGAGCGATG 182
 Db 271 ACCCTGGCAGCCCTGGCGAGCCCTGCGCGAGGCCCTCTGGAGGGAGCGATG 330

Qy 183 GAGCCAGTGAGGAGGGCTGCTGGAGCCACCGGCTGCAACTCAGAACCCCTCAG 242
 Db 331 GAGCCAGTGAGGAGGGCTGCTGGAGCCACCGGCTGCAACTCAGAACCCCTCAG 390

Qy 243 AGCCATGAGCACAGCTGCCCTGACGGGCTGAGCTGTGAGGCCGCCCGG 302
 Db 391 AGCCATGAGCACAGCTGCCCTGACGGGCTGAGCTGTGAGGCCGCCCGG 450

Qy 303 AGCCAGGAGGAGGGCTCATAGTTTACAGGATACACATT 362

Db 451 AGCCAGGAGGAGGGCTCATAGTTTACAGGATACACATT 510

Qy 363 GCAAGAGCATGAGGCCACTGTCGACTGTCGACTGCTGCAT 422

Db 511 GCAGGAGCATGAGGCCACTGTCGACTGCTGCAT 570

Qy 423 GGACCTGTTGCAAGGCCAGGGAGGGCTTGAAGGACTCTGAGGAGGCCCTGCCAAGAG 482

Db 571 GGACCTGTTGCAAGGCCAGGGAGGGCTTGAAGGACTCTGAGGAGGCCCTGCCAAGAG 630

Qy 483 TTCAATTACCTAACAGGTTACAGGCTAACAGGCCGGGGAGTCACCTGCCAACCTACAC 542

Db 631 TTCAATTACCTAACAGGTTACAGGCTAACAGGCCGGGGAGTCACCTGCCAACCTACAC 690

Qy 543 TTCAATTGCCCCCAGCAGGGGTCACGGGTGCATCTGGTCAACTCCAAGGAGGCTGAG 602

Db 691 TTCAATTGCCCCCAGCAGGGGTCACGGGTGCATCTGGTCAACTCCAAGGAGGCTGAG 750

Qy 603 GTGCCTTCGAGAACCCGGTGCATAAAGGGACTAAGCTGCTCACAAATORAGTC 662

Db 751 GTGCCTTCGAGAACCCGGTGCATAGGAGGCTAAGCTGCTCACAAATORAGTC 810

Qy 663 AACAGAACCGGGCATGAGAGCTGAGAGCTGAGGAGCTAAGCTGCTCACAAATORAGTC 722

Db 811 AACAGAACCGGGCATGAGAGCTGAGAGCTGAGGAGCTAAGCTGCTCACAAATORAGTC 870

Db 931 TACATGCACTCTGCAAGAGACATGGCAAGGGCAACGGGACATGGCAAGGGTGGAGGTCTCCAG 990

Qy 723 AGCGAGGAGACTGCTGCCAAGGAAGCCGAACTGACTCGGGTCAGCAC 782

Db 871 AGCAGGAGCTGCTGCCAAGGGAGCCACATGACTCGGGTCAGCAC 930

Db 783 TACATGCACTCTGCAAGAGACATGGCAAGGGCAACGGGACATGGCAAGGGTGGAGGTCTCCAG 842

Qy 991 CTGGAGAACGGATCTGACCAAGACAGCAGGACATGTCAGCTGGCAGCTGGCAGCTGGCAGCTGGCAGTGGAG 1050

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Db 1111 GCGCAGCTGAGGAGCACTGCCAGGGCTCGCCAGGCCAGGCC 1170

Db 1023 CCCGCTGCCGCCGCCGCCGCCGCC 1082

Db 1171 CCCTCTGCCGCCGCCGCCGCC 1230

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Db 1231 TCTACAAAGAGATCCAGGTGACCAAGCTGAGGGCTGCCACCCCTCTGCCC 1290

Qy 1143 ATGCCAACCTCACAGCCTCCACCTTACCGACAGCAGCCCTGAGGAGAC 1202

Db 1291 ATGCCAACCTCACAGCCTCCACCTTACCGACAGCAGCCCTGAGGAGAC 1350

Qy 1203 TGCCCTGAGGCCCTGGAGGATGCCACACAGCTGCTCATCTCTGGTGAAGGCCAG 1262

Db 1351 TGCCCTGAGGCCCTGGAGGATGCCACAGCAGCTCATTCTGGTGAAGGCCAG 1410

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Db 1411 AACACAAACGCCCTCATGAGGCTGCTGGCGACAGACCGGGGGCTGACC 1470

Qy 1323 GTCATCAGAGACGCCCTGGATGGCTCTGTTAACTCTTCAGGACTGGAGAGCTGAG 1382

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Qy 1383 CAACGGTTGGAAACATGACGGGAAACTGACGGGAAACTGCTGCGCCCTGGAGAACATTACTGGCT 1442

Db 1531 CAACGGTTGGAAACATGACGGGAAACTGCTGCGCCCTGGAGAACATTACTGGCT 1590

Qy 1443 ACGACCAAGGCAACTAACCTCTGGACATGGCTGGGGCAAGGTC 1502

Db 1591 ACGACCAAGGCAACTAACCTCTGGACATGGCTGGGGCAAGGTC 1650

Qy 1503 TTCCAGAAATCCAGTTCCTGGCTTCAACTGCAACGCAAGGAGTAC 1562

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Qy 1563 GGGCTACATGCCAGTTCCTGGCTTCAACTGCAACGCAAGGAGTAC 1622

Db 1711 GGGCTACATGCCAGTTCCTGGCTTCAACTGCAACGCAAGGAGTAC 1770

Qy 1623 ACCTGAGAGACTCATGCTACAGGAAACTGCGCAACTCCAGAGGGC 1682

QY 783 TACATGAGCTCTGCAAGAGATCATCGCAAGGGACACCGGTGGAACTCCAG 842
Db 931 TACATGAGCTCTGCAAGAGATCATCGCAAGGGACACCGGTGGAACTCCAG 990
QY 843 CTGGAGAACGAGATCTGAAACAGACAGCAGCCACATCTGAGCTGCCAGAAGTCCAG 902
Db 991 CTGGAGAACGAGATCTGAAACAGACAGCAGCCACATCTGAGCTGCCAGAAGTCCAG 1050
QY 903 GACCTGGAGACAAGTACCAAGGACCTGGCAACTGGCAAGAGACGGCAAGTCAG 962
Db 1051 GACCTGGAGACAAGTACCAAGGACCTGGCAACTGGCAAGAGACGGCAAGTCAG 1110
QY 963 GGCAGAGTGGAGACTGGCAAGGAGGCTGGCAAGAGACGGCAAGTCAG 1022
Db 1111 GGCAGAGTGGAGACTGGCAAGGAGGCTGGCAAGAGACGGCAAGTCAG 1170
QY 1023 CCCGCTGCCGCCGGCTTACCAACACCCACTACCGATCATCAAACAGATC 1082
Db 1171 CCCGCTGCCGCCGGCTTACCAACACCCACTACCGATCATCAAACAGATC 1230
QY 1083 TCTTACCAAGAGATCCAGAGTACCAACACCCACTACCGATCATCAAACAGATC 1142
Db 1231 TCTTACCAAGAGATCCAGAGTACCAACACCCACTACCGATCATCAAACAGATC 1290
QY 1143 ATGCCCACTCTTACCAACACCCACTACCGATCATCAAACAGATC 1202
Db 1291 ATGCCCACTCTTACCAACACCCACTACCGATCATCAAACAGATC 1350
QY 1203 TGCCTGCAGGCCCTGGAGATGGCCACGAACAGCTTCACTACTGGTGGAGAGAC 1262
Db 1351 TGCCTGCAGGCCCTGGAGATGGCCACGAACAGCTTCACTACTGGTGGAGAGAC 1410
QY 1263 AACACCACCGCTCATGAGCTGCTGCAACAGAGAACGACGGGGCTGGAC 1322
Db 1411 AACACCACCGCTCATGAGCTGCTGCAACAGAGAACGACGGGGCTGGAC 1470
QY 1323 GTCATCCGGAGACGCCCTGGATGGCTCTGTAACCTCTTCAAGACTGGGAGCTGAC 1382
Db 1471 GTCATCCGGAGACGCCCTGGATGGCTCTGTAACCTCTTCAAGACTGGGAGCTGAC 1530
QY 1383 CAAGGGTTGGAGACATGACGGGATACTGGCTGGAGAACATTACTGGCT 1442
Db 1531 CAAGGGTTGGAGACATGACGGGATACTGGCTGGAGAACATTACTGGCT 1590
QY 1443 ACCAACCCAGGCAACTACAACACTCTGTGACATGGAGACTGGTCCGCGCAAGTC 1502
Db 1591 ACGRACCAGGGCACTAAACTCTGTGACATGGAGACTGGTCCGCGCAAGTC 1650
QY 1593 TTTCGAGATACCCAGTTGGTGGATATACTGGGTG 1562
Db 1651 TTTCGAGATACCCAGTTGGTGGATATACTGGGTG 1710
QY 1563 GGGGCTACAGGCAATGGGGTACTCTTACATGGCAACGGCAAGGCTCACC 1622
Db 1711 GGGGCTACATGGCAATGGGGTACTCTTACATGGCAACGGCAAGGCTCACC 1770
QY 1623 ACCCTGGAGAGATCATGATGTTACAGGAAACTGTGGCAACTACAGG 1682
Db 1771 ACCCTGGAGAGATCATGATGTTACAGGAAACTGTGGCAACTACAGG 1830
QY 1683 TGGTGTATAACCCCTGGCCACTCCAAACCTCAACGGGTGTGACGGGGCCAT 1742
Db 1831 TGGTGTATAACCCCTGGCCACTCCAAACCTCAACGGGTGTGACGGGGCCAT 1890
QY 1743 TACCGGAGCGCTTACAGGACGGAGTCTACTGGCTGAGTGGAGGCTACTCA 1802
Db 1891 TACCGGAGCGCTTACAGGACGGAGTCTACTGGCTGAGTGGAGGCTACTCA 1950
QY 1803 CTCAAGAAAGTGTGATGATGACCCACTTCACTAAGCCAGCTC 1862
Db 1951 CTCAAGAAAGTGTGATGATGACCCACTTCACTAAGCCAGCTC 2010
QY 1863 CCCCTCTGACCTCTGTCGCCATTGGAGGCCACACTTCACTAAGCCAGCTC 1922

RESULT 8

US-10-140-024-267

; Sequence 267, Application US/10140024

; Publication No. US20040058424A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Boreseini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Billen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerrittsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tomas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; TITLE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P3330R169

; CURRENT APPLICATION NUMBER: US/10/140-024

; CURRENT FILING DATE: 2002-05-06

; Prior Application removed - See Palm or File Wrapper

; NUMBER OF SEQ ID NOS: 550

; SEQ ID NO: 267

; LENGTH: 2290

; TYPE: DNA

; ORGANISM: Homo sapien

US-10-140-024-267

Query Match 98.1%; Score 2132.6; DB 13; Length 2290;

Best Local Similarity 99.8%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 2135; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 AAATGAGGCTGCGGGCTGTGAAATGACCCAAAGCCCTGGAGCTGGAGGGTG 62
Db 151 AAATGAGGCTGCGGGCTGTGAAATGACCCAAAGCCCTGGAGCTGGAGGGTG 210
QY 63 GCAATGAGGCTGCGGGCTGTGAAATGACCCAAAGCCCTGGAGCTGGAGGGTG 122
Db 211 GCATGAGGCTGCGGGCTGTGAAATGACCCAAAGCCCTGGAGCTGGAGGGTG 270
QY 123 ACCCTGGCAGGCTGGCCAGGACGGCTGTGAGGAGGCTGTGGAGGAGCCGTG 182
Db 271 ACCCTGGCAGGCTGGCCAGGACGGCTGTGAGGAGGCTGTGGAGGAGCCGTG 330
QY 183 GAGCCAGTGGAGGAGGCTGTGGAGGCCACGGGCTGTGCAACTCGAGAACCCCTCAG 242

Db	Oy	Db	Oy
331	GACCCCACTGAGCAGGGCTCTGGAGCACCACGGCCTGCAACTCGAGAACCCCTCAG	390	
243	AAGCCATCGAAGGTGAGCTGCCCTGACGCCAGGGTAAAGATGTGAGGAGCCGGGG	302	
391	AGGCATCGAAGGTGAGCTGCCCTGACGCCAGGGTAAAGATGTGAGGAGCCGGGG	450	
303	AAGCCAGGAGGGGAGAGGCTTCATAGATTCTATCACAAAGATAACCAATT	362	
451	AAGCAAGGAGGGGAGAGGCTTCATAGATTCTATCACAAAGATAACCAATT	510	
363	GCALAGACCATGAGGCCACTGCGTGACCGCCAGGTAAAGATGTGAGGAGCCGGGG	422	
511	GCAGGACCATGAGGCCACTGCGTGACCATCTGGCTGGACTGCTGCTGCTGCGATG	570	
423	GGAGCTGTGAGCCAGGAGGGTTGGGACTGAGGAGGACTCCAGAGAG	482	
571	GGAGCTGTGAGCCAGGAGGGTTGGGACTGAGGAGGACTCCAGAGAG	630	
483	TTCATTACCTAACAGGTAACAGGTCAGGGGGGAGGGCTCCAGAGAG	542	
631	TTCATTACCTAACAGGTAACAGGTCAGGGGGGAGGGCTCCAGAGAG	690	
543	TTCATTACCTAACAGGTCAGGGGGAGGGCTCCAGAGAG	602	
691	TTCATTACCTAACAGGTCAGGGGGAGGGCTCCAGAGAG	750	
603	GGCTTCMGGAGACGGTGTCAAGAGGAGCTGAGCTTCAACAGAGCTC	662	
751	GGCTTCMGGAGACGGTGTCAACAGAGCTGAGCTTCAACAGAGCTC	810	
663	AAGGAGAAGGGAGATGAGGAGCTGAGCTGGAGGTGAGGTGGAGGGCATG	722	
871	AGCGAGGTGAGCTGCGCAGAGGAGGCCAACATGAGCTCGCGGTACCGAGCT	930	
783	TACATGCGCTCTGCGAGGAGCATCGAGGAGCTGCGAGGAGCTCTCCAG	842	
931	TACATGCGCTCTGCGAGGAGCATCGAGGAGCTGCGAGGAGCTCTCCAG	990	
843	CAGGAGAAGGATCTGCGAGGAGCATCGAGGAGCTGCGAGGAGCTCTCCAG	902	
991	CAGGAGAAGGATCTGCGAGGAGCATCGAGGAGCTGCGAGGAGCTCTCCAG	1050	
903	GACCTGGAGCACAGTACCGACCTGGCCACCATGAGATCATC	962	
1051	GACCTGGAGCACAGTACCGACCTGGCCACCATGAGATCATC	1110	
963	GGCAGCTGAGGAGCACTGCCAGAGGGTGCCTCGGCCAAGCCCGTCCAGCACCC	1022	
1111	GGCAGCTGAGGAGCACTGCCAGAGGGTGCCTCGGCCAAGCCCGTCCAGCACCC	1170	
1023	CCGCTGCCCCGCCCCGGTCTACCAACCAACCTAACAGCATACACAGATC	1082	
1171	CCGCTGCCCCGCCCCGGTCTACCAACCAACCTAACAGCATACACAGATC	1230	
1083	TCTACCAAGGAGATCCAGGAGACCTGGCCACCCCTCTGCCACT	1142	RESULT 9
1231	TCTACCAAGGAGATCCAGGAGACCTGGCCACCCCTCTGCCACT	1290	US-10-140-808-267
1143	ATGCCACTCTCACCGCTCCATCTCCAGGAGCTGCCCTGGAGAC	1202	; Sequence 267, Application US/10140808
1291	ATGCCACTCTCACCGCTCCATCTCCAGGAGCTGCCCTGGAGAC	1350	; Publication No. US200301017563A1
QY	GENERAL INFORMATION:		
Db	APPLICANT: Baker, Kevin P.		
Db	APPLICANT: Bersini, Maureen		
QY	APPLICANT: Deforge, Laura		
Db	APPLICANT: Desnoyer, Luc		
QY	APPLICANT: Filavoroff, Ellen		
Db	APPLICANT: Gao, Wei-Qiang		
QY	APPLICANT: Gerritsen, Mary E.		
Db	APPLICANT: Goddard, Audrey		
QY	APPLICANT: Godowski, Paul J.		
Db	APPLICANT: Gurney, Austin L.		

APPLICANT: Sherwood, Steven
 APPLICANT: Smith, Victoria
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tunas, Daniel
 APPLICANT: Watanabe, Colin K
 APPLICANT: Wood, William
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
 FILE REFERENCE: P3330R1C1B2
 CURRENT APPLICATION NUMBER: US/10/140,808
 PRIOR APPLICATION removed - See File Wrapper or Palm
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO: 267
 LENGTH: 2290
 TYPE: DNA
 ORGANISM: Homo Sapien
 US-10-140-808-267

Query Match: 98.1%; Score: 2132.6; DB: 13; Length: 2290;
 Best Local Similarity: 99.8%; Pred. No.: 0;
 Matches: 2135; Conservative: 0; Mismatches: 4; Indels: 0; Gaps: 0;

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Db 871 AGCGGAGTGAAGCTGTGCCAAGGAAGACCCGAAACATGACTCGGGTCAGCACTC 930
Qy 783 TACATGCASCTCTGCCAGGATCATCCCAACGGGACAACCGTGTGAGCTCTCCAG 842
Db 931 TACATGCAGTCCTGCCAGGATCATCCCAAGGGACAACGGTGTGAGCTCTCCAG 990
Qy 843 CTGAGAACGGAATCTGACCCACGACASCGAATGCGCAGSTGGCAGAGTAAG 902
Db 991 CTGGAGAACGGAATCTGACCCACGACAGCGACATGCTGTCAGCTGGCAGAGTAAG 1050
Qy 903 GACCTGGAGCACGATCCAGCACCTGGCACACTGCCACACCATCAGAGATC 962
Db 1051 GACCTGGAGCACGAGTACCGACACTGSCCAGACACTGSCCAGACCATCAGATC 1110
Qy 963 GCGCACTTGAGGAGCACTGCCAGGGTGCCTCGGCCAGGGCCATGGCCACCCC 1022
Db 1111 GCGAGCTTGAGGAGCACTGCCAGGGTGCCTCGGCCAGGGCCATGGCCACCCC 1170
Qy 1023 CCCGGCGCCGGCGGGCTCTACACACACCCACCTAACCGCATCATCACACATC 1082
Db 1171 CCCGGTGCCTCGGCCAGGGCTCTACACACACCCACCTAACCGCATCATCACACATC 1230
Qy 1083 TCTACCAACGAGATCCAGGATGACCGACACTGAGGCTGCTCCACCCCTTGCCACT 1142
Db 1291 ATGCCACTCTACCAAGCCCTCCATCTTCACCGACAGCCGTCGGCCATGAGAGAC 1350
Qy 1203 TGCCCTCAGGCCCTGGAGATGGCCACACAGCTCATCTACCTGTGAGCCGAG 1262
Db 1351 TGCCCTCAGGCCCTGGAGATGGCCACACAGCTCATCTACCTGTGAGCCGAG 1410
Qy 1263 AACACCAACCGCCCTCATGGAGGATGCCACACAGCTCATCTACCTGTGAGCCGAG 1322
Db 1411 AACACCAACCGCCCTCATGGAGGATGCCACACAGCTCATCTACCTGTGAGCCGAG 1470
Qy 1323 GTCATCCAGAGACCCCTGGAGGATGCCACACAGCTCATCTACCTGTGAGCCGAG 1382
Db 1471 GTCATCCAGAGACCCCTGGAGGATGCCACACAGCTCATCTACCTGTGAGCCGAG 1530
Qy 1383 CAAGGGTTGGACATGACGGAAACTGCTGCGCTGGACATGCTGCTGCATG 1442
Db 1531 CAAGGGTTGGACATGACGGAAACTGCTGCGCTGGACATGCTGCTGCATG 1590
Qy 1443 AGCACAAAGCAACTAAGCTCTGGACATGAGGACTCTGGCTGGCGCAAGTC 1502
Db 1591 AGCACAAAGCAACTAAGCTCTGGCTGGACATGCTGCTGCATG 1650
Qy 1563 GGGCCTACATGCCATGGCGTGGCTGGCTGGACAGTGCCTGCATG 1622
Db 1503 TTGGAGATAAGCGGATTCGGCTGGCTGGACCTGAGGGAGGATTAATAGTGCGCTG 1562
Db 1651 TTGGAGATAAGCGGATTCGGCTGGCTGGACCTGAGGGAGGATTAATAGTGCGCTG 1710
Qy 1563 GGGCCTACATGCCATGGCGTGGCTGGCTGGACAGTGCCTGCATG 1622
Db 1711 GGGCCTACATGCCATGGCGTGGCTGGCTGGACCTGAGGGAGGATTAATAGTGCGCTG 1770
Qy 1623 ACCCTGAGACAGATCATGTCATGAGGAAACTGCGCAACTCCAGAGGGGG 1682
Db 1771 ACCCTGAGACAGATCATGTCATGAGGAAACTGCGCAACTCCAGAGGGGG 1830
Qy 1683 TGGTGTGATPACSGCTGTCGCCACTCCACCTAACCGGGTCTGGTACCGGGGGCAT 1742
Db 1831 TGGTGTGATPACSGCTGTCGCCACTCCACCTAACCGGGTCTGGTACCGGGGGCAT 1890
Qy 1743 TACCGAGGGTACCCAGACGGAGTCACTGGCTAGTCTGCTCACCATGAGCTC 1802
Db 1891 TACCGAGGGTACCCAGACGGAGTCACTGGCTAGTCTGCTCACCATGAGCTC 1950
Qy 1803 CTCAAGAAACTGGTGTGATGATCCGACCGAACCCCCAACACCTCCACTAACCGAGCTC 1862

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723 AGCGGAGTGAAGCTGTGCCAAGGAAGACCCGAAACATGACTCGGGTCAGCACTC 782

Db 1951 CTCAGAAGTGGTATGATGATCGACCGAACCCAAACCTTCACTAACCCAGCTCC 2010
 QY 1863 CCCCTCTGACTCTGTGGCCTGCATGCCACCTGCCCCCACCTGTCACCTGCCCCCAC 1922
 Db 2011 CCTCTCTGACTCTGTGGCCTGCATGCCACCTGCCCCCACCTGTCACCTGCCCCCAC 2070
 QY 1923 AAAGAACACTCCACCATGTTACCCAGTCATCCGAGCTGGGGATGGGAGTGTGATTCTGT 1982
 Db 2071 AAAGAACACTCCACCATGTTACCCAGTCATCCGAGCTGGGGATGGTGTGATTCTGT 2130
 QY 1983 TTCCGAAGTCACTGCACGGATGATGGAACTGATCCATACGGTGTGTTTGTCCTCC 2042
 Db 2131 TTCCGAAGTCACTGCACGGATGATGGAACTGATGATGGTGTGTTTGTCCTCC 2190
 QY 2043 TATTCCTTACACACAGCCCTGATGCTCCAGAGCAGGATACACAA 2102
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 QY 2103 CTCTCTTAAATAATTAAGTCTTCACTAACAA 2141
 Db 2251 CTCTCTTAAATAATTAAGTCTTCACTAACAA 2289

RESULT 10
 US-10-152-405-267

; Sequence 267, Application US/10152405
; Publication No. US20030211571A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Andrej
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watson, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
; FILE REFERENCE: P330R1C383

CURRENT APPLICATION NUMBER: US/10-152,405
; CURRENT FILING DATE: 2002-05-20
; PRIORITY Application removed - See File Wrapper or Patent
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 267
; LENGTH: 2290
; TYPE: DNA
; ORGANISM: Homo sapien
; US-10-152-405-267

Query Match 98 1%; Score 2132 6; DB 13; Length 2290;
 Best Local Similarity 99.8%; Pred. No. 0;
 Matches 2135; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 AAATGGGCTGTGGCAGCAGCTGAGGATGAAACCAGGCTGAGCTGGCGAGCTG 62
 Db 151 AAATGGGCTGTGGCAGCAGCTGAGGATGAAACCAGGCTGAGCTGGCGAGCTG 210
 Qy 63 GCACTGAGGAGGGCTGACCTGAGGGAAAGGGTGTGAGGAGCCGCGCAGG 122
 Db 211 GCACTGAGGAGGGCTGACCTGAGGGAAAGGGTGTGAGGAGCCGCGCAGG 270
 Qy 123 ACCCTCTGCAACCCCTGGCCACAGCCCTGCGGAGCCCTGTCAGGAGCTG 182
 Db 271 ACCCTCTGCAACCCCTGGCCACAGCCCTGCGGAGCCCTGTCAGGAGCTG 330

QY 183 GAGCCCAAGTGGCAGGGCTGCTGGCAACCGGCCCTGCAACTCAAGAACCCCTCAG 242
 Db 331 GAGCCCAAGTGGCAGGGCTGCTGGCAACCGGCCCTGCAACTCAAGAACCCCTCAG 390
 QY 243 AGGCATGGAGGGTCCCCTGAGCCGGCAGGGTGAAGCATGTGAGGGCCCCCG 302
 Db 391 AGGCATGGAGGGTCCCCTGAGCCGGCAGGGTGAAGCATGTGAGGGCCCCCG 450
 QY 303 AGCCAGCAGGAGGAGGGCTTCAAGTCTTACAAGAAACCCATT 362
 Db 451 AGCCAGCAGGAGGAGGGCTTCAAGTCTTACAAGAAACCCATT 510
 QY 363 GCAAGAACCTGAGGCCACTGTGCTGATGCTGGTGGCTGACTGTGGCTGCCATG 422
 Db 511 GCAAGAACCTGAGGCCACTGTGCTGATGCTGGTGGCTGACTGTGGCTGCCATG 570
 QY 423 GGAGCTGTCAGGCCAGGAGGAGCTTGGGGCTGAGGAGGGCTGGCAGAAG 482
 Db 571 GGAGCTGTCAGGCCAGGAGGAGCTTGGGGCTGAGGAGGGCTGGCAGAAG 630
 QY 483 TCATTTACTAACAGTACAAGC3GGGGCAGTCCAGGACAAGGCACTTACAC 542
 Db 631 TTCAATTACAAACAGTACAAGGGGGGGGAGTCAGGAAAGTGACCTACAC 690
 QY 543 TTCAATTGCCCCAGGAGGGTACGGGGCTCTGGCTCAACTCAGGACCTTAC 602
 Db 691 TTCAATTGCCCCAGGAGGGTACGGGGTACGGGTCACTCTGGTCAACTCAGGACCTTAC 750
 QY 603 GTGCTCTGGAGAACGGGTGATAAGGGAGTAGGCTGCTGTOAAAGATGAGCTGTC 662
 Db 751 GTGCTCTGGAGAACGGGTGATAAGGGAGTAGGCTGCTGTCAGGAGCTGTC 810
 QY 663 AACGAGAGGGAGATGAGACCTGAGCAGGTGGCTGAGGGCATGGTGGAGGCTGTC 870
 Db 811 AACGAGAGGGAGATGAGACCTGAGCAGGTGGCTGAGGGCATGGTGGAGGCGCATTTG 870
 QY 723 AGCGAGGTGAGGCTGCTGGCAAGGAGGCCGCRACATGAACTGGCGGTAGCGC 782
 Db 871 AGCGAGGTGAGGCTGCTGGCAAGGAGGCCGCRACATGAACTGGCGGTAGCGC 930
 QY 783 TACATGCACTCTGCAAGAGATCATCCCAACGGGCAACGGGCAACCGGTGGAGCTG 842
 Db 911 TACATGCACTCTGCAAGAGATCATCCCAACGGGCAACGGGCAACCGGTGGAGCTG 990
 QY 843 CTGGAGAAGGAGCTGAGGAGCTGGCAAGGAGGCCGCRACATGAACTGGCGGTAGCGC 902
 Db 9191 CTGGAGAAGGAGCTGAGGAGCTGGCAAGGAGGCCGCRACATGAACTGGCGGTAGCGC 1050
 QY 903 GACCTGGAGAACGATGAGCACGACCTGGCCACACCAATCAGAGATTC 962
 Db 1051 GACCTGGAGAACGATGAGCACGACCTGGCCACACCAATCAGAGATTC 1110
 QY 963 GCGCACTGAGGAGCTGGCAAGGAGGCCGCRACATGAACTGGCGGTAGCGC 1022
 Db 1111 GCGCACTGAGGAGCTGGCAAGGAGGCCGCRACATGAACTGGCGGTAGCGC 1170
 QY 1023 CCCCTGGCCAGCCGGTCTCCAAACACCCACCTPACAACGGCATCATACCGAGTC 1082
 Db 1171 CCCCTGGCCAGCCGGTCTCCAAACACCCACCTPACAACGGCATCATACCGAGTC 1230
 QY 1083 TCTTACCAAGAGTCAAGTGGCAAGGAGCTGGGGCTCTGGCAAGGCGTGTGAGGAGAC 1142
 Db 1231 TCTTACCAAGAGTCAAGTGGCAAGGAGCTGGGGCTCTGGCAAGGCGTGTGAGGAGAC 1290
 QY 1143 ATGCCCACTCTGAGGAGCTCCATCTTACCGACAGCCGCTGGGGCATGTGAGGAGAC 1202
 Db 1291 ATGCCCACTCTGAGGAGCTCCATCTTACCGACAGCCGCTGGGGCATGTGAGGAGAC 1350
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 Db 1351 TGCTTGAGGAGCTGGAGATGGCAACACAGGAGCTGAGGAGGAGCTGAGGAGGAG 1410

QY 1263 AACACCACCGCCTCAAGCAGGTCGGACCAAGACGACCCGGGGCTGAGC 1322
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1411 AACACCAACCGCTCATCGAGGTGGACCAAGACGACCCGGGGCTGAGC 1470
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 QY 1323 GTATCGAGAGGCCTGAGTGGCTCTTAACCTCTTCAGAAGACTGGAGAC 1382
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 QY 1471 GTCATCCAGAGGCCCTGAGTGGCTCTTAACCTCTTCAGAAGACTGGAGAC 1530
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1383 CAAGGGTTGGAACTATGACGGGAACTCGCTGGGGCTGGAGAACATTAC 1442
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1511 CAAGGGTTGGAACTATGACGGGAACTCGCTGGGGCTGGAGAACATTAC 1590
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1443 ACCGACCGGAACTACAACTCTCTGGTACCTTGACGGAACTCGCTCTG 1650
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 QY 1591 ACGGACCGGAACTACAACTCTCTGGTACCTTGACGGAACTCGCTCTG 1652
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 QY 1503 TTGCAAGATAGCCAGTTGGCTGAGAAGCTGAAGGGTATATAAGCTGGCTG 1710
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 QY 1651 TTGCAAGATAGCCAGTTGGCTGAGAAGCTGAAGGGTATATAAGCTGGCTG 1710
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 QY 1563 GGCGCTTACATGGCAATGGGGTACTCTTACATGGCACAGGACTGGTCCGG 1622
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 QY 1711 GGCGCTTACATGGCAATGGCACAGGACTGGTCCGG 1770
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 QY 1623 ACCCTGGACAGAGATCATGATGTCACAGGAACTCTGGCCACTACAGAGGG 1682
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 QY 1771 ACCCTGGACAGAGATCATGATGTCACAGGAACTCTGGCCACTACAGAGGG 1830
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1683 TGGGTATAACCCCTGGCCACTCCACCTTACGGGTTGGTACCGGGGGCCAT 1742
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1831 TGGGTATAACGGCTGGCCACTCCACCTTACGGGTTGGTACCGGGGGCCAT 1890
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1743 TACGGGACGGTACAGGACGGAGTCTACTGGCTAGTTCGAGAGGCTTACTA 1802
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1891 TACGGGACGGTACAGGACGGAGTCTACTGGCTAGTTCGAGAGGCTTACTA 1950
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1803 CTAGAAGTGGTATGATGATGCCAGGACGCCAACCTTCACTAAGCCGCTCC 1862
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1951 CTCAGAAGTGGTATGATGATGCCAGGACGCCAACCTTCACTAAGCCGCTCC 2010
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1863 CCCCTCTGACCTCTGGCCATGCCAGGACGCCAACCTTCACTAAGCCGAC 1922
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 2011 CCCCTCTGACCTCTGGCCATGCCAGGACGCCAACCTTCACTAAGCCGAC 2070
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1923 AAAGACAACCTCCACCGATCCTCGAGGCTGGAGGACGGATGCTGATCTGT 1982
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 2071 AAAGACAACCTCCACCGATCCTCGAGGCTGGAGGACGGATGCTGATCTGT 2130
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 1983 TTCCGAAGTCACTCGAGGGATGAACTGATAGTGGTGTCTGCTCTCC 2042
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 2131 TTCCGAAGTCACTCGAGGGATGAACTGATAGTGGTGTCTGCTCTCC 2190
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 2043 TACTTCCCTCACCCAGAGCCCTCATGTCAGAGAGGATACAGCAA 2102
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 2191 TACTTCCCTCACCCAGAGCCCTCATGTCAGAGAGGATACAGCAA 2250
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 2103 CTCTTCTTAATAATTAGTCTCAATAAAACA 2141
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 2251 CTCTTCTTAATAATTAGTCTCAATAAAACA 2289
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 RESULT 11
 US-10-127-852A-267
 Sequence 267, Application US/10127852A
 Publication No. US20030203428A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin P.
 APPLICANT: Beresini, Maureen
 APPLICANT: Deforge, Laura
 APPLICANT: Desnoyes, Luc
 APPLICANT: Filatoff, Ellen
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Sherwood, Steven
 APPLICANT: Smith, Victoria
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Watanabe, Colin R.
 APPLICANT: Wood, William
 APPLICANT: Zheng, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
 FILE REFERENCE: P330R188
 CURRENT APPLICATION NUMBER: US/10127, 852A
 PRIOR FILING DATE: 2002-10-15
 PRIOR APPLICATION NUMBER: 60/04911
 PRIOR FILING DATE: 1997-06-18
 PRIOR APPLICATION NUMBER: 60/056974
 PRIOR FILING DATE: 1997-08-25
 PRIOR APPLICATION NUMBER: 60/059113
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059115
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/04911
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059117
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059122
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059134
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059253
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059352
 PRIOR FILING DATE: 1997-09-19
 PRIOR APPLICATION NUMBER: 60/059588
 PRIOR FILING DATE: 1997-09-19
 Remaining Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO: 267
 LENGTH: 2390
 TYPE: DNA
 ORGANISM: Homo Sapien
 US-10-127-852A-267
 Query Match 98.1%; Score 2132.6; DB 13; Length 2290;
 Best Local Similarity 99.8%; Pred. No. 0; Mismatches 0; Indels 0; Caps 0;
 Matches 2135; Conservative 0;
 Query Match 98.1%; Score 2132.6; DB 13; Length 2290;
 Best Local Similarity 99.8%; Pred. No. 0; Mismatches 0; Indels 0; Caps 0;
 Matches 2135; Conservative 0;
 QY 3 ATATAGGCTGTGGGAAAGCCCTGAGGATGAACCCCAGCCCTGGACCTGGCAGGTG 62
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 63 GCACTGGAGGAGCTGGCTGAGCTACTGTGGAGGAAGAGGTGTGAGGACGCCAGG 122
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 211 GCACTGGAGGAGCTGGCTGAGCTACTGTGGAGGAAGAGGTGTGAGGACGCCAGG 270
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 123 ACCCTGGCCAGCTGGCCACCTGGCTCTGGAGGCTCTGGAGGAGCCAGTGTG 182
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 271 ACCCTGGCCAGCTGGCCACCTGGCTCTGGAGGAGCCAGTGTG 330
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 183 GAGCCAGTAGGAGGGCTGGCCAGGAGCCAGCTGGAGGAGCCAGTGTG 242
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 331 GAGCCAGTAGGAGGGCTGGCCAGGAGCCAGCTGGAGGAGCCAGTGTG 390
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 243 AGCCAGTAGGAGGGCTGGCCAGGAGCCAGCTGGAGGAGCCAGTGTG 302
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 391 AGCCAGTAGGAGGGCTGGCCAGGAGCCAGCTGGAGGAGCCAGTGTG 450
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 303 AGCCAGTAGGAGGGCTGGCCAGGAGCCAGCTGGAGGAGCCAGTGTG 362
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 451 AGCCAGTAGGAGGGCTGGCCAGGAGCCAGCTGGAGGAGCCAGTGTG 510
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 363 GCAAGACCATGAGGCCACTGGTGTGATGTTGGTGTCTCCACTCTGGTGC 422
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Db	511	GCAGGACCATGAGGCCACTGTGGTGACATGCTGGTGCCTGGACTCTGGCTGCCATG	570	QY	1503	TTCGCGAAACGCCATTGGCGCTGGACCTGGAGGAGTTAAGCTGGGTG	1562
QY	423	GGAGCTGTTGAGCCAGGAGACGGTTTGGGGCACTGGAGGACTCCCAAGAG	482	Db	1651	TTTGAGAAATRGCCAGTTCCGCTGGAACCTGGAGGAGCTTCAGCTGGGTG	1710
Db	571	GGACCTGTTGAGCCAGGAGACGGTTTGGGGCACTGGAGGACTCCCAAGAG	630	QY	1563	GGACCTGACATGSCAATGGGGCACTCTTACATGAGAACTGGCCACTACAGAG	1632
QY	483	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	542	Db	1711	GGCGCTACATGGTAATGGGGCACTCTTACATGAGAACTGGCCACAGCTACCC	1770
Db	631	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	690	QY	1623	ACCGTGGACAGAGATCATGAGTGTACAGAGAACTGGCCACTACAGAGGGAGC	1682
QY	543	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	602	Db	1711	ACCTGGACAGAGATCATGAGTGTACAGAGAACTGGCCACTACAGAGGGAGC	1830
Db	691	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	750	QY	1683	TGGCTATAACGGCTGGCACTGGCACTGAGGCTGAGGCTGAGGAGGCTG	1742
QY	603	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	662	Db	1831	TGGTGGTATAACGGCTGGCACTGGCACTGAGGCTGAGGCTGAGGAGGCT	1890
Db	751	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	810	QY	1743	TACCGAGGAGGAGGCTGAGGAGGCTGAGGAGGCTGAGGAGGCTGAGGAGGCT	1802
QY	663	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	722	Db	1891	TACCGAGGAGGAGGCTGAGGAGGCTGAGGAGGCTGAGGAGGCTGAGGAGGCT	1950
Db	811	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	870	QY	1803	CTCAGAAGAACTGGTATGATGAGTGGCTGGCCACTCCACCTCACAGGGCT	1862
QY	723	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	782	Db	1951	CTCAGAAGAACTGGTATGATGAGTGGCTGGCCACTCCACCTCACAGGGCT	2010
Db	871	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	930	QY	1863	CCTCTCTGACCTCTGTCGCGCTGGGAGGCTACTGGCTGTGAGTCCAGGAG	1922
QY	783	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	842	Db	2011	CCCTCTGACCTCTGTCGCGCTGGCCACCTGGCTACGCGTC	2070
Db	931	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	990	QY	1923	AAAGACACTCTCACAGCTGAGGAGGCTGAGGAGGCTGAGGAGGCTGAG	1982
Db	843	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	902	Db	2071	AAAGACACTCTCACAGCTGAGGAGGCTGAGGAGGCTGAGGAGGCTGAG	2130
QY	991	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	1050	QY	1983	TTCCGAAAGTCACCGAGGGATGAGGACTGAGTGTGATGAGTGTGAGGAG	2042
Db	903	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	962	Db	2131	TTCCGAAAGTCACCTGAGGAGGATGAGTGTGAGGAGTGTGAGGAG	2190
Db	1051	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	1110	QY	2043	TACTTCTCTCACACAGCTGAGGAGGCTGAGGAGGCTGAGGAGGCTGAG	2102
QY	963	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	1022	Db	2191	TACTTCTCTCACACAGCTGAGGAGGCTGAGGAGGCTGAGGAGGCTGAG	2250
Db	1111	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	1170	QY	2103	CTCTCTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	2141
QY	1023	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	1082	Db	2251	CTCTCTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	2289
Db	1171	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	1230				
QY	1083	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	1142				
Db	1231	TGATTTCTAACACAGSTAAGCGSCGCGGTTGGGACTGAGGAGGCTGCCAGAG	1290				
QY	1143	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1202				
Db	1291	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1350				
QY	1203	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1262				
Db	1351	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1410				
QY	1263	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1322				
Db	1411	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1470				
QY	1323	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1392				
Db	1471	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1530				
QY	1383	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1442				
Db	1531	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1590				
QY	1443	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1502				
Db	1591	ATGCCACTCTAACACAGCTTCCACGAGTGTGAGGAGGCTGCCAGAG	1650				

RESULT 12
US-10-127-900A-267
; Sequence 267 Application US/10127900A
; Publication No. US20030203429A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: DeNooyer, Luc
APPLICANT: Filavoff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sharwood, Steven
APPLICANT: Stewart, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R161
CURRENT APPLICATION NUMBER: US/10/127,900A
CURRENT FILING DATE: 2002-10-15

1831 TGGTGGTATAACGCCCTGCCCCACTCAACTCAAGGGGCTGTACCGGGGCT 1890
 QY 1743 TACCGAGCCCTACCCGGACGGAGTACTGGGCTGAGTRCGAGGAGCTRACTA 1802
 Db 1891 TACCGAGCCCTACCCGGACGGAGTACTGGCTGAGTCCGAGGAGCTRACTA 1950
 QY 1803 CTCAAGAAAGTGGTGTGATCCTGCAGGACACCTGAGTCAGCTGGCTGAGTCCGAGGAGCTRACTA 1862
 Db 1951 CTCAAGAAAGTGGTGTGATCCTGCAGGACACCTGAGTCAGCTGGCTGAGTCCGAGGAGCTRACTA 2010
 QY 1863 CCCTCTGACTCTCTGGCATTCAGGAGCCACCTTCACTAGCCAGCTC 1922
 Db 2011 CCCTCTGACTCTCTGGCATTCAGGAGCCACCTTCACTAGCCAGCTC 2070
 QY 1923 AAAGACAACTCTTACCACTGATCTGGGCTGAGCTGGCTGAGTCTGT 1982
 Db 2071 AAAGACAACTCTTACCACTGATCTGGGCTGAGTCTGT 2130
 QY 1983 TTCCGAAGTCACTGAGCTGGCTGAGTCTGT 2042
 Db 2131 TTCCGAAGTCACTGAGCTGGCTGAGTCTGT 2190
 QY 2043 TACTTCCTCACACAGAGCGCCCTCATCTCTCAGGACGGAACTGCTG 2102
 Db 2191 TACTTCCTCACACAGAGCGCCCTCATCTCAGGACGGAACTGCTG 2250
 QY 2103 CTCTCTTTAAATAATTAAAGTCCTCACATAAACCA 2141
 Db 2251 CTCTCTTTAAATAATTAAAGTCCTCACATAAACCA 2289
 RESULT 13
 US-10-128-685A-267
 ; Sequence 267, Application US/10128685A
 ; Publication No. US20030203430A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Bersini, Maureen
 ; APPLICANT: DeForg, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurinov, Austin I.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watson, Colin K
 ; APPLICANT: Wood, William
 ; APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P330R1C16
 CURRENT APPLICATION NUMBER: US10/128,685A
 CURRENT FILING DATE: 2002-04-23
 PRIOR APPLICATION NUMBER: 60/049911
 PRIOR FILING DATE: 1997-05-18
 PRIOR APPLICATION NUMBER: 60/056974
 PRIOR FILING DATE: 1997-05-26
 PRIOR APPLICATION NUMBER: 60/059113
 PRIOR FILING DATE: 1997-05-17
 PRIOR APPLICATION NUMBER: 60/059115
 PRIOR FILING DATE: 1997-05-17
 PRIOR APPLICATION NUMBER: 60/059117
 PRIOR FILING DATE: 1997-05-17
 PRIOR APPLICATION NUMBER: 60/059122
 PRIOR FILING DATE: 1997-05-17
 PRIOR APPLICATION NUMBER: 60/059184
 PRIOR FILING DATE: 1997-05-17
 PRIOR APPLICATION NUMBER: 60/059263
 Query Match 98.1%; Score 2132.6; DB 13; Length 2290;
 Best Local Similarity 99.8%; Pred. No. 0; Mismatches 4; Indels 0; Gaps 0;
 Matches 2135; Conservative 0; MisMatched 4;
 QY 3 ATATGGGGCTCTGGCGACGGCCCTGAGGATGACCCAAAGCCAGGCTGAGCTGGCCAGCGTG 62
 Db 151 ATATGGGGCTCTGGCGACGGCCCTGAGGATGACCCAAAGCCAGGCTGAGCTGGCCAGCGTG 210
 QY 63 GCATCTGGCGCGCGCTGAGCTACTGTGAGGAAAGAAGGTTGGAGGAGCCCGCAGG 122
 Db 211 GCATCTGGCGCGCGCTGAGCTACTGTGAGGAAAGAAGGTTGGAGGAGCCCGCAGG 270
 QY 183 AGGCCAGTGGAGGAGGGCTCTGGAGGACCCGCTGAACTCAGGAAACCTCCAG 242
 Db 331 AGGCCAGTGGAGGAGGGCTCTGGAGGACCCGCTGAACTCAGGAAACCTCCAG 390
 QY 243 AGGCCATGGAGGAGGGCTGCCCCTGAGGAGCTGAGGAGGAGCCCG 302
 Db 391 AGGCCATGGAGGAGGGCTGCCCCTGAGGAGCTGAGGAGGAGCCCG 450
 QY 303 AGCCAGCAGGAGGGCTTCTAGATCTCATAGCTTACAAAGATAACCATT 362
 Db 451 AGCCAGCAGGAGGGAGGACTTCTCATAGCTTACAAAGATAACCATT 510
 QY 363 GCAAGACCTGAGGCACTGTGGTACAGCTGGTGGAGCTGCTGGCTGCGCATG 422
 Db 511 GCAAGACCTGAGGCACTGTGGTACAGCTGGTGGAGCTGCTGGCTGCGCATG 570
 QY 423 GAGACTGTTGGAGGCACTGGTGGAGCTGCTGGCTGCGCATG 482
 Db 571 GAGACTGTTGGAGGCACTGGTGGAGCTGCTGGCTGCGCATG 630
 QY 483 TCATTTACCTAACAGGTACCAACGGGGGGCAAGTCCACCA 542
 Db 631 TCATTTACCTAACAGGTACCAACGGGGGGCAAGTCCACCA 690
 QY 543 TCTATGTCGCCCGAGGGTCAGGGTCCATCTGCTCACTCCAGGAGCTGAG 602
 Db 691 TCTATGTCGCCCGAGGGTCAGGGTCCATCTGCTCACTCCAGGAGCTGAG 750
 QY 603 GTGCTCTGGAGACGGCATCGAGACGGTCACTGGCTCAACATGAGTGT 662
 Db 751 GTGCTCTGGAGACGGCATCGAGACGGTCACTGGCTCAACATGAGTGT 810
 QY 663 AACGAGAAGCCGAGATCGAGACGGTCACTGGCTCAACATGAGTGT 722
 Db 811 AACGAGAAGCCGAGATCGAGACGGTCACTGGCTCAACATGAGTGT 870
 QY 723 AGCGAGGTGAGCTGCTGGCAAGAGACGGCACTAGTGGGGTCAACAGGAGCTC 782
 Db 871 AGCGAGGTGAGCTGCTGGCAAGAGACGGCACTAGTGGGGTCAACAGGAGCTC 930
 QY 783 TACATGCACTCTGCAAGAGATCATCGAGACGGCAAGAGTGGACTCTCCAG 842
 Db 931 TACATGCACTCTGCAAGAGATCATCCCAAGGGAGACGGCAACGGTGGACTCTCCAG 990

QY 843 CTGGAGAACAGGATCTGACCCAGAGCCGACATCTGGAGCTGGCCACCAAGTACAQ 902
Db 991 CTGGAGAACAGAATCTGAACCGAGACAGCAGGAGTCAGCTGGCAGCAAGTACAQ 1050
QY 903 GACCTGGAGCAAGTACCGACACTGGCCACACTGGCCACACTGGCCACAACTAGAGATC 962
Db 1051 GACCTGGAGCAAGTACCGACACTGGCCACACTGGCCACACTGGCCACAACTAGAGATC 1110
QY 963 GGCAGGTGGAGGAGACTGGAGGTTGGAGGTTGGAGGTTGGAGGTTGGAGGTTGGAGG 1022
Db 1111 GGCAGGTGGAGGAGACTGGAGGTTGGAGGTTGGAGGTTGGAGGTTGGAGGTTGGAGG 1170
QY 1023 CGCGCTCCCGCCCGGTGACCGACCCACTACAGCCACACCAATAGAGATC 1082
Db 1171 CGCGCTCCCGCCCGGTGACCGACCCACTACAGCCACACCAATAGAGATC 1230
QY 1083 TCTTACCAAGGAGATCCAGAGTACCAAGAACCTGAGGTGTCGACCCCTCTGCCATT 1142
Db 1231 TCTTACCAAGGAGATCCAGAGTACCAAGAACCTGAGGTGTCGACCCCTCTGCCATT 1290
QY 1143 ATGCCACTCTACCAACCTCCATCTACCGAGCTCCACCGAGCTCCACCGAGCTCCAC 1202
Db 1291 ATGCCACTCTACCAACCTCCATCTACCGAGCTCCACCGAGCTCCACCGAGCTCCAC 1350
1203 TGCCTGGAGGCCCTGGGGATGCCAGGAGACCGAGCTCCACCGAGCTCCACCGAGCTCCAC 1262
1351 TGCTGTGAGGCCCTGGGGATGCCAGGAGACCGAGCTCCACCGAGCTCCACCGAGCTCCAC 1410
QY 1263 AACACCACCGCCCTCATCGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 1322
1411 AACACCACCGCCCTCATCGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 1470
Db 1323 GTCATCCAGGAGCCCTGGAGTCTGTTACTCTCTCCAGAACCTGGGAGCTACAG 1382
QY 1471 GTCATCCAGGAGCCCTGGAGTCTGTTACTCTCTCCAGAACCTGGGAGCTACAG 1530
QY 1383 CAGGGTTGGAGACATGACCGGAATACTGGCTGGCTGGAGAACATTAATCGCTG 1442
Db 1531 CAAGGTTGGAAACATTCGCGGAATACTGGCTGGCTGGAGAACATTAATCGCTG 1590
QY 1443 ACCAACCAAGGCAACTACAACACTCTCTGGTGGACCATGGAGGACTGGTGGCGCGCAAGTC 1502
1591 ACAGAACCAAGGCAACTACAACACTCTCTGGTGGACCATGGAGGACTGGTGGCGCGCAAGTC 1650
Db 1503 TTGCGAGATAAGGCCATTGGCGCTGGAGGACTGGAGGAGTATAAGCTGGGTG 1562
1651 TTGCGAGATAAGGCCATTGGCGCTGGAGGACTGGAGGAGTATAAGCTGGGTG 1710
1563 GGCCTTACATGCAATGGGGTACTCTTACATGGCAACCGCAAGCAGCTTCAC 1622
1771 GGGGCTTACATGGCAATGGGGTACTCTTACATGGCAACCGCAAGCAGTICAC 1770
Db 1623 ACCTGGAGAGATCATGATCTGAGAACCTGGGAGGTTGGAGGTTGGAGG 1682
QY 1771 ACCTGGAGAGATCATGATCTGAGAACCTGGGAGGTTGGAGGTTGGAGG 1830
Db 1683 TGGGGATAACGCCCTGGCCACTCCACCTCACCGGCTGGACGGGGGGCAT 1742
QY 1831 TCTGGTAAACCCCTGGCCACTCCACCTCACCGGCTGGACGGGGGGCAT 1890
Db 1743 TACCGGACCGCTTACCGAGGAGTACTGGCTGGAGGAGCTACTCA 1802
QY 1891 TACCGGACCGCTTACCGAGGAGTACTGGCTGGAGGAGCTACTCA 1950
Db 1803 CTGAGAAGTGTGATGATGATCCACCGGAAACCCACACTTCCACTAACCCAGCTC 1862
QY 1951 CTGAGAAGTGTGATGATCCACCGGAAACCCACACTTCCACTAACCCAGCTC 2010
Db 1863 CCCTCTGACCTCTGGCCATGGAGGACCCACCTGCTGGTCAAGCAGCAC 1922
Db 2011 CCCCTCTGACCTCTGGCCATGGAGGACCCACCTGCTGGTCAAGCAGCAC 2070
QY 1923 AAGAACACACTCTCACCGTCTGGAGGAGCCGGATCTGGATCTGT 1982

RESULT 14

US-10-131-820A-267
; Sequence 267, Application US/10131820A

; Publication No. US20030203431A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeGeorge, Laura

; APPLICANT: Desnoyers, Juc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Stewart, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P3330RC144

; CURRENT APPLICATION NUMBER: US/10131820A

; CURRENT FILING DATE: 2002-10-17

; PRIOR APPLICATION NUMBER: 60/049911

; PRIOR FILING DATE: 1997-06-18

; PRIOR APPLICATION NUMBER: 60/056974

; PRIOR FILING DATE: 1997-08-26

; PRIOR APPLICATION NUMBER: 60/059113

; PRIOR FILING DATE: 1997-09-17

; PRIOR APPLICATION NUMBER: 60/059115

; PRIOR FILING DATE: 1997-09-17

; PRIOR APPLICATION NUMBER: 60/059117

; PRIOR FILING DATE: 1997-09-17

; PRIOR APPLICATION NUMBER: 60/059122

; PRIOR FILING DATE: 1997-09-17

; PRIOR APPLICATION NUMBER: 60/059184

; PRIOR FILING DATE: 1997-09-17

; PRIOR APPLICATION NUMBER: 60/059263

; PRIOR FILING DATE: 1997-09-18

; PRIOR APPLICATION NUMBER: 60/059352

; PRIOR FILING DATE: 1997-09-19

; PRIOR APPLICATION NUMBER: 60/059588

; PRIOR FILING DATE: 1997-09-19

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 550

; SEQ ID NO: 267
; LENGTH: 2290

; TYPE: DNA

; ORGANISM: Homo Sapien
US-10-131-820A-267

; Query Match: Best Local Similarity: 99.8%; Score: 2132.6; DB: 13; Length: 2290;

Matches	2135;	Conservative	0;	Mismatches	4;	Indels	0;	Gaps	0;
QY	3	AATGAGCTTGCGGACGGCTGAGATGAAACCCAAAGGCTGACCTCCGGAGCTG							62
Db	151	AATGAGCTTGCGGACGGCTGAGATGAAACCCAAAGGCTGACCTCCGGAGCTG							210
QY	63	GCCTGAGGAATGGCTGACCTACTGTGAGGAAGAAGGTTGAGCACCCCGAG							122
Db	211	GCCTGAGGAATGGCTGACCTACTGTGAGGAAGAAGGTTGAGCACCCCGAG							270
QY	123	ACCCCTGCCAGCCTGCCAGCCCTGCGAGGCTTGTGGAGGGAGCAGTG 182							
Db	271	ACCCCTGCCAGCCTGCCAGCCCTGCGAGGCTTGTGGAGGGAGCAGTG 182							330
QY	183	GAACCACTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGG							242
Db	331	GAACCACTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGG							390
QY	243	ASGCCATGGAGGGCTGCCCTGAGGCTGAGGCTGAGGCTGAGGCTGAGG							302
Db	391	ASGCCATGGAGGGCTGCCCTGAGGCTGAGGCTGAGGCTGAGGCTGAGG							450
QY	303	ACCCAACTGAGGAGGCTTCTAGATCTTCTAGAAAGATAACCAATT 362							
Db	451	ACCCAACTGAGGAGGCTTCTAGATCTTCTAGAAAGATAACCAATT 362							510
QY	571	GCRAAGACCATGAGGCACTTCGTCACATCTGGCTCGACTGCTGCTGCCATG							422
Db	511	GCRAAGACCATGAGGCACTTCGTCACATCTGGCTCGACTGCTGCTGCCATG							570
QY	423	GGAGCTGTGAGGCCAGGAGGAGCAGGTTAGGGACTGAGGAGGCTCCAAAGAG							482
Db	571	GGAGCTGTGAGGCCAGGAGGAGCAGGTTAGGGACTGAGGAGGCTCCAAAGAG							630
QY	483	TTCATTAACGAGTACAGGTACAGCGGGCGAGTCGGTCACTGCGTCATG 542							
Db	631	TTCATTAACGAGTACAGGTACAGCGGGCGAGTCGGTCACTGCGTCATG 542							690
QY	543	TTCATGTGCGCAGCGCGGTCAAGGTTCACTGCGTCAGTCCAGGAGCTGAG							
Db	691	TTCATGTGCGCAGCGCGGTCACTGCGTCAGTCCAGGAGCTGAG 750							
QY	603	GGCTCTGGAGAACGGAGTCAAGCAGGAGTAGGCTGCTCACATGAGTC 662							
Db	751	GGCTCTGGAGAACGGAGTCAAGCAGGAGTAGGCTGCTCACATGAGTC 662							810
QY	663	AACGAGAGCGGGAGATCGAGCGCTGAGGAGCTGTGAGGTGACCGGGCTGTG							722
Db	811	AACGAGAGCGGGAGATCGAGCGCTGAGGAGCTGTGAGGTGACCGGGCTGTG							870
QY	723	AACGGAGGTGAACTGCTGCTGGAGGAGCCACATGAGCTGGGGTACGGCTC							782
Db	871	AACGGAGGTGAACTGCTGCTGGAGGAGCCACATGAGCTGGGGTACGGCTC							930
QY	783	TACATGGAGCTCTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG							842
Db	931	TACATGGAGCTCTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG							990
QY	843	CCTGGAGACAGATCTGCGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGG							902
Db	991	CCTGGAGACAGATCTGCGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGG							1050
QY	903	GAACCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG							962
Db	1051	GAACCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG							1110
QY	963	GGCAGCTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG							1022
Db	1111	GGCAGCTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG							1170
QY	1023	CGCGCTGCCGCCGCCGGTTACCAACCAACCTACACCGCATCATACACCAG							
Db	1171	CGCGCTGCCGCCGCCGGTTACCAACCAACCTACACCGCATCATACACCAG							1230

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Page 21

Db 1711 GGGCGCTTACCATGGCAATGGGGTGACTCCTTTACATGGCAACGGCAAGCAGTCACC 1770
Qy 1623 ACCCTGGACAGAGATCTGATGTTCTACAGGAACCTGTCCCACTACCGAAGGGAGGC 1682
Db 1771 ACCCTGGACAGAGATCTGATGTTCTACAGGAACCTGTCCCACTACCGAAGGGAGGC 1830
Qy 1683 TGGGGTATAAGCCCTGCCCCACTCAACCTCAACGGGCTGTGTAACGGGGGCCAT 1742
Db 1831 TGGGGTATAAGCCCTGCCCCACTCAACCTCAACGGGCTGTGTAACGGGGGCCAT 1890
Qy 1743 TACCGGAGCCCTACAGGAGGGAGCTACTGGGTGAGTCCGGAGGGCTTACTCA 1802
Db 1891 TACCGGAGCCCTACAGGAGGGAGCTACTGGGTGAGTCCGGAGGGCTTACTCA 1950
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Qy 1863 CCCTCTGACCTCTGGGATTGGCAGGGCCACCTGTGGCTGGCACAGCAC 1922
Db 2011 CCCTCTGACCTCTGGCATTGGCAGGGCCACCTGTGGCTGGCACAGCAC 2070
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Db 2071 AAAGAACACTCTTACCGAGTCATCTGGCTGGAGGACCCGGATGTGGATTCTG 2130
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Db 2251 CTCTTCTTAAATTAATTAGTCCTACATAAAACA 2289

Search completed: August 6, 2004, 20:44:37
Job time : 987 secs



GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 6, 2004, 13:47:28 ; Search time 5559 Seconds
(without alignments)
11673.056 Million cell updates/sec

Title: US-10-018-386-1
Perfect score: 2173

Searched: 1 gaaatcgggtcgccgaa.....aaaaaaa...aaaaaaa 2173

Scoring table: IDENTITY_NUC
Gapopen 1.0 , Gapext 1.0

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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15: em_estfun:*
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29: gb_gss2:*

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ALIGNMENTS

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RESULT 1
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LOCUS AK037265 2062 bp mRNA linear HRC 19-SEP-2003
DEFINITION Mus musculus 16 days neonate thymus cDNA, RIKEN full-length
ENRICHED LIBRARY, CLONE:AL30002A02 PRODUCT:ANGIOPOTIN-RELATED
PROTEIN 2 PRECURSOR, FULL INSERT SEQUENCE.
ACCESSION AK037265
VERSION AK037265.1 GI:26333099
KEYWORDS HIC; CAP trapper.
SOURCE
ORGANISM Mus musculus (house mouse)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathii; Muridae; Murinae; Mus.

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1454.4	61.9	2062 11	AK037265
2	1039.4	47.8	1201 9	AK037265 Mus muscu
3	989.6	45.5	1201 9	AK523842
4	939.8	43.2	1201 9	AK52386

REFERENCE

1 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Carninci, P. and Hayashizaki, Y.

Itou, M., Komuro, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes

JOURNAL Genome Res. 10 (10), 1617-1630 (2000)

MEDLINE 20499374

PUBMED 11042159

REFERENCE	
AUTHORS	Shibata,K., Itoh,M., Aizawa,K., Nagaoka,S., Sasaki,N., Carrincli,P., Kojino,H., Akiyama,M., Nishi,K., Kitsunai,T., Tashiro,H., Itoh,M., Sumi,N., Ishii,Y., Nakamura,S., Hazama,M., Nishine,T., Hada,M., Yamamoto,R., Matsumoto,H., Sakaguchi,S., Ikegami,T., Kashiwagi,K., Fujimaki,S., Inoue,K., Togawa,T., Matsuura,S., Kawai,J., Yoneda,Y., Ichikawa,T., Ozawa,K., Tanaka,T., Matsuura,S., Kawai,J., Okazaki,Y., Murauchi,M., Inoue,Y., Kira,A. and Hayashizaki,Y.
TITLE	RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer
JOURNAL	Genome Res. 10 (11), 1757-1771 (2000)
MEDLINE	20030913
PUBMED	11076861
REFERENCE	4
AUTHORS	The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.
JOURNAL	Nature 409, 685-690 (2001)
REFERENCE	5
AUTHORS	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
JOURNAL	Nature 420, 563-573 (2002)
REFERENCE	6 (bases 1 to 2052)
AUTHORS	Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Bono,H., Carrincli,P., Fukuda,S., Furuno,M., Hanagaki,T., Hara,A., Hasizume,W., Hayashida,K., Hayashi,Y., Hiramoto,K., Hirooka,T., Hirozane,T., Horii,F., Imotani,K., Itoh,M., Kawao,T., Kasukawa,T., Karoh,H., Kawai,J., Koizumi,S., Konno,H., Kouda,M., Koya,S., Kurihara,C., Matsuura,T., Miyazaki,A., Murata,M., Nakamura,M., Nishi,K., Nomura,K., Numata,I.R., Ohno,M., Ohnato,N., Okazaki,Y., Saito,R., Saitoh,H., Sakai,C., Sakai,K., Sakazume,N., Sano,H., Sasaki,T., Shibaoka,T., Shinagawa,A., Shitaku,T., Sofabe,Y., Tagami,M., Tagawa,A., Takasaki,F., Takaku-Akahira,S., Takeda,Y., Tanaka,T., Tomaru,A., Toyai,T., Yasunishi,A., Muramatsu,M. and Hayashizaki,Y.
JOURNAL	Direct Submission
COMMENT	Submitted (15-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC'), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 23-0045, Japan. (E-mail: genome-re@gsc.riken.go.jp, URL: http://genome.gsc.riken.go.jp), Tel: 81-45-503-9222, Fax: 81-45-503-9215
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Organism	Homo sapiens	
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Buteris; Primates; Catarrhini; Hominidae; Homo.		
1 (bases 1 to 1201)		
Li,W.B., Gruber,C., Jesse,J. and Polayes,D.		
Title	Full-length cDNA libraries and normalization	
Journal	Unpublished (2001)	
Comment	On Feb 13, 2001 this sequence version replaced ggi:12787335.	
Contact	Genoscope	
Genoscope - Centre National de Séquençage		
Bp 191 91006 EVRY cedex - France		
FEATURES	source	
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 VERSION AL572386.2
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 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1201)
 AUTHORS Li,W.B., Gruber,C., Jesse,J. and Polayes,D.
 TITLE Full-length cDNA libraries and normalization.
 JOURNAL Unpublished (2001)
 COMMENT On Feb 16, 2001 this sequence version replaced gi:12930602.
 Contact: Genoscope
 Genoscope - Centre National de Sequençage
 BP 191 91006 EVRY cedex - France
 Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 4821.r. For
 more information about this cluster, see
<http://www.genoscope.cns.fr/>
 CGN-bincluster.cgi?seq=CS0101DH07NP1&cluster=4821.r. Contact :
 Peng Liang Email : filang@lifetech.com URL :
<http://fulllength.invitrogen.com/> Invitrogen Corporation 1600
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FEATURES

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 Db 1092 ACMACCCCKKSCSWAAACCSG---ATTCACACADATACCCAMSHATCWRDAA 1037
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ORIGIN

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VERSION	AL546299_2			
KEYWORDS	EST.			
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ORGANISM	Homo sapiens			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
REFERENCE	1 (bases 1 to 1201)			
AUTHORS	Li, W.B., Gruber, C., Jessee, J. and Polyes, D.			
TITLE	Full-length cDNA libraries and normalization			
JOURNAL	Unpublished (2001)			
COMMENT	On Feb 15, 2001 this sequence version replaced gi:12879279.			
Contact:	Genoscope			
	Genoscope - Centre National de Séquençage			
	BP 191 91006 EVRY cedex - France			
Email:	secref@genoscope.cnrs.fr			
	Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 4821.r For more information about this cluster, see			
	http://www.genoscope.cnrs.fr/cgi-bin/cluster.cgi?seq=CS0D1031CC11QP1&cluster=4821.r . Contact : Feng Liang Email : liang@lifetech.com URL : http://full-length.invitrogen.com/ Invitrogen Corporation 1600 Paradyne Avenue Genoscope sequence ID : CS0D1031CC11QP1.			
Db	543	TTGCTTGAGGCCAGGAGCTGAGGTGAACTCCAGGAGCTGAGGTGAACTCC	602	
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Db	692	TTGCTTGAGGCCAGGAGCTGAGGTGAACTCCAGGAGCTGAGGTGAACTCC	751	
Qy	692	TTGCTTGAGGCCAGGAGCTGAGGTGAACTCCAGGAGCTGAGGTGAACTCC	751	
Db	663	TTGCTTGAGGCCAGGAGCTGAGGTGAACTCCAGGAGCTGAGGTGAACTCC	722	
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Db	812	TTGCTTGAGGCCAGGAGCTGAGGTGAACTCCAGGAGCTGAGGTGAACTCC	871	
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Db	783	TTGCTTGAGGCCAGGAGCTGAGGTGAACTCCAGGAGCTGAGGTGAACTCC	842	
Qy	783	TTGCTTGAGGCCAGGAGCTGAGGTGAACTCCAGGAGCTGAGGTGAACTCC	842	
Db	872	TTGCTTGAGGCCAGGAGCTGAGGTGAACTCCAGGAGCTGAGGTGAACTCC	931	

QY 843 CTGGAGAACGAGATTCCTGAAAGCCAGACGCCACATGTGCGCTGCCAAGAACAG 902
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RESULT 8
AL554832 AL554832 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
DEFINITION clone CS0D1087YH21 5'-PRIME, mRNA sequence.
ACCESSION AL554832
VERSION EST
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo;
1 bases 1 to 1201
AUTHORS Li, W.B.; Gruber, C.; Jessie, J. and Polayes, D.
TITLE Unpublished (2001)
JOURNAL COMMENT On Feb 15, 2001 this sequence version replaced gi:12895989.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: segen@genoscope.cns.fr Web : www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 4821.r For
more information about this cluster, see
http://www.genoscope.cns.fr/
cg-bin/cluster.cgi?see=CS0D1087YH21&cluster=4821.r. Contact :
Feng Liang Email: fling@lifefetch.com URL :
http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
Faraday Avenue Genoscope sequence ID : CS0D1087YH21QF1.

FEATURES source
source
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/organism="Homo sapiens"
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/clone_id="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-Oligo (dt)
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sites of the pCWSFORT 6 vector. Library was normalized."
ORIGIN

Query Match 40.2%; Score 873.8; DB 9; Length 1201;
Best Local Similarity 87.8%; Prid. No. 3.5e-106;
Matches 921; Conservative 53; Mismatches 68; Indels 7; Gaps 3;

QY 15 TCGGGAGCGCTGAGGATGAAACCCAAAGCCATTGGAACCTGGCAGCTGGACTGGAG 74
Db 69 TCGGGAGCGCTGAGGATGAAACCCAAAGCCATTGGAACCTGGCAGCTGGACTGGAG 128
QY 75 CGCTCTGAGCTACTGTGAGGAAAGAGGTTGTGAGCAGCCGGAGGAACCTGGCAG 134
Db 129 CGCTCTGAGCTACTGTGAGGAAAGAGGTTGTGAGCAGCCGGAGGAACCTGGCAG 188

RESULT 9
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LOCUS DEFINITION AGENCOURT 6621548 NIH_MGC_125 Homo sapiens cDNA clone IMAGE:5724698
5', mRNA sequence.
ACCESSION BM916705
VERSION BM916705.1 GI:19357084
KEYWORDS EST
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.

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QY 255 GGCTGCCCGCTGAGGGCAGGTTGAGACATGTGAGGCCAGGCCAGGCCAGGCCAG 314
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QY 315 GGGAGAGGCTTGTAGATCATTCAAGATAAACACATTTGCAAGGACATG 374
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QY 555 CAGAGGG-GTCAAGGGGGCCATCTGGTCACTCCAGGGCCTGAGGCTACACCTTCATGTGCCC 613
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Db 789 KCTKCTGCTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 848
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AUTHORS	NIH-MGC http://mgc.ncbi.nih.gov/ Mammalian Gene Collection (MGC)	Qy	543 TTCAATTGCCCCAGCAGGGGTCACTCGCGCAACTCCAGGAGCTGAG 602
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)	Db	579 TTCAATTGCCCCAGCAGGGGTCACTCGCGCAACTCCAGGAGCTGAG 638
JOURNAL	Unpublished (1999)	Qy	603 GTGCTTCTGAGACCGACTGCTAACAGGGCTAGAGCTGCTCACANTGAGCTGCTC 662
COMMENT	Contact: Robert Strasberg, Ph.D. Email: cgaps-r@mail.nih.gov	Db	639 GTGCTTCTGAGACCGACTGCTAACAGGGCTAGAGCTGCTCACANTGAGCTGCTC 698
Tissue	Procurement: Invitrogen	Qy	663 AAGAGAAGGGAGATGAGAGCCTGAGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG 722
Library	Library Arrayed by: The I.M.A.G.E. Consortium (LNU)	Db	699 AACAGAACGGAGATGAGACCTCTCAGAGCTGAGCTGAGCTGAGCTGAGCTG 758
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Procurement	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNU at: http://image.lnl.ni.gov	Db	759 AGCGAGGTGAAGCTGTCGCAAGGAGAGCCCAACTT-GAACTCGGGTACGGAGCT 818
Library	http://lum1214 row: 9 column: 03	Db	782 CTACATGAGCTCTGAGAGATCATCCGCCAGGGAGAACACAGCGTTGGAGCTCCC 840
High quality sequence	start: 3	Db	819 CTACATGAGCTCTGAGAGATCATCCGCCAGGGAGAACACAGCGTTGGAGCTCCC 878
source	High quality sequence stop: 640.	Db	841 AGCTGGAGAACAGATCTGAGAGATCATCCGCCAGGGAGAACACAGCGTTGGAGCTCCC 900
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/lab_host="DH10B"	/lab host="DH10B"	Db	939 AGAACCTTGAGACAAAGTCCCGCCCTGSGCCATGTGGCCCCAACCHATCAAAAT 998
/clone lib="NIH_MGC_125"	/clone lib="NIH_MGC_125"	Db	959 CATGGCAGC-TTGAGGAGCTGCGAGGG-----TGCCCTGGCCAGGCC 1007
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Site_1: ECORV (destroyed); Site_2: NotI; RNA source pool	Site_1: ECORV (destroyed); Site_2: NotI; RNA source pool	Db	
of three ovaries, from females ranging in age from 38 to	of three ovaries, from females ranging in age from 38 to	Db	
49 yo. Library is oligo-dT primed and directionally cloned	49 yo. Library is oligo-dT primed and directionally cloned	Db	
(ECORV site is destroyed upon cloning). Average insert	(ECORV site is destroyed upon cloning). Average insert	Db	
size 2.1 Kb, insert size range 1.3-5 Kb. Library is	size 2.1 Kb, insert size range 1.3-5 Kb. Library is	Db	
normalized and enriched for full-length clones and was	normalized and enriched for full-length clones and was	Db	
constructed by C. Gruber (Invitrogen). Research Genetics	constructed by C. Gruber (Invitrogen). Research Genetics	Db	
tracking code 036."	tracking code 036."	Db	
ORIGIN		Db	
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Best Local Similarity	40.1%	Db	
Matches	92.2%; Conservative	Db	
987; Conservative	0; Mismatches 69; Indels 15; Gaps 6;	Db	
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QY	3 AAATGAGGCTGCTGGAGGGCTGAGGATGAACTCCGAGCGTQ 62	Db	
Db	39 AAATGAGGCTGCTGGAGGGCTGAGGATGAACTCCGAGCGTQ 98	Db	
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Db	99 GCATGAGGCAAGGGCTGAGCTACTGTGAGGAAGGTTGAGCAGCCGAGG 158	Db	
QY	123 ACCCTGGCAAGCTGGCCAGCCCTGTGAGGAGAGCTGAGGAGCTGAGTQ 182	Db	
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Db	279 AGGCATGGACAGGCTGCCGTGGAGGACCCGGCTAACCTAGGAAACCCCTGAG 338	Db	
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Db	399 GCGAGGACCATGGGGCACTGTGGAGGACATCTGAGGAGCTGCCATG 458	Db	
QY	423 GGAGCTGTTGCAAGCCAGGAGGGCTTGTGGAGGAGCTGCCAGAGAG 482	Db	
Db	459 GGAGCTGTTGCAAGCCAGGAGGGCTTGTGGAGGAGCTGCCAGAGAG 518	Db	
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Page 11

/clone lib="NIH_MGC_113"
 /note="Organ: spleen; Vector: pOTB7; Site_1: XbaI; Site_2:
 BcRI; cDNA made by oligo-dT priming. Directionally cloned
 into EcoRI/XbaI sites using the following 5' adaptor:
 GGCTTCAAG(G). Library constructed by Ling Hong in the
 laboratory of Gerald M. Rubin (University of California,
 Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
 Superscript II RT (Life Technologies). Note: this is a
 NIH_MGC library."

Db	839	GACAGGACCCGGGGCTGGACGTATCCAAAGAACGCCTGATGGCTCTGNNTACTTC	898
Oy	1359	TTCAGGAACTGGAGAGCTTACAGCAGGG	1388
Db	899	TTCAAGGAATCTGGAACTTCCTCAAGCAAGGG	928

Query	Match	39.8%	Score	865.4;	DB	13;	Length	929;
	Best Local Similarity	97.6%	Pred.	No.	4.9e-1	0.105;	Indels	19;
	Matches	908;	Conservative	0;	Mismatch	3;	Gaps	3;
QY								
QY	460	CCTGAGGGAGGGCTGCCAGAGAGTTCTTAACTAACAGGTACAGCGGCGGGGGAGT	519					
Db	1	CTGAGGAGGGCTGCCAGAGAGTTCTTAACTAACAGGTACAGCGGCGGGGGAGT	60					
QY	520	CCGAGGACAAGTGACCACTACACTTATGTCGCCAGCACGGGGTACGGGTGCACT	579					
Db	61	CCGAGGACAAGTGACCACTACACTTATGTCGCCAGCACGGGGTACGGGTGCACT	120					
QY	580	GCGTCACTCCAGGACCTGAGGTTCGGAGACCGGAGCTTAAGGGCTAGAGGCTAG	639					
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QY	700	TGAGGTTGACCGCGGATGAGGAGAGCTGAGGAGATGAGGAGCTGCGAGAGGAGAACA	759					
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QY	760	TGAACTCGCGCTTCAAGCAGCTTAATGAGCTCTTGAGAGATCATCGCAGCGCG	819					
Db	301	TGAACTCGCGCTTCAAGCAGCTTAATGAGCTCTTGAGAGATCATCGCAGCGGG	360					
Db	820	ACACCGTTGAGCTCCAGCTGAGAACAGGATCTGAGACAGCGACATGC	879					
Db	361	ACACCGTTGAGCTCCAGCTGAGAACAGGATCTGAGACAGCGACATGC	420					
QY	880	TGCACTGGCGAGCAACTACAGGAATTGGAGCACAGTAGCTGGACACTGG	939					
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QY	1000	CCAGGGCGCTCCACCGCCACCCCCGGCTGCCACCCGGTCTAACACACCACT	1059					
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DEFINITION Clone IMAGE:6181203 5', mRNA sequence.
ACCESSION B0879104.1
VISUALIZATION
VERSION B0879104.1
EST_ID B0879104
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
BIOLOGICAL_ASSEMBLY Homo sapiens
MATERIALS Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
MATERIALS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE NIH-MGC http://mgc.nci.nih.gov/
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT
Email: cgsapbs-r@mail.nih.gov
Tissue_Procurement: Dr. James R. Lupski
CDNA_Library_Preparation: Life Technologies, Inc.
CDNA_Library_Arrayed_by: The T.M.A.G.E. Consortium (LNU)
DNA_Sequencing: Agencourt Bioscience Corporation
Clone_Distribution: MGC clone distribution information can be
 found through the T.M.A.G.E. Consortium/LNU at:
<http://Image.lnl.gov>
Plate: LNUM13565 **Row:** d **Column:** 04
High_quality_sequence_stop: 671.
Location/Qualifiers
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 /der_stage="adult", 36 yr"
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 /note="Vector: pCMV-SPORT6 (Life Technologies); Site_1:
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 Directionally cloned using the following adaptors:
 5'-TCGACCCAGCGCTCC-3' and
 5'-GACTAATTCGATCCGGAGGGCCCCCT(15)-3'. Size selected >
 1 kb for average insert length 1.7 kb. This is a primary
 library, non-amplified. Library constructed by Life
 Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor
 College of Medicine) and is available through Life
 Technologies."
FEATURES
source

FEATURES	
Source	Location/Qualifiers
Qy	1. .1195
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/note="1st strand cDNA was primed with Not I-oligo (dT) primer. First prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMSPORT 6 vector. Library was normalized."	
Db	Query Match 38.0%; Score 826.8; DB 9; Length 1195;
Qy	Best Local Similarity 86.2%; Pred. No. 5.7e-100; Matches 859; Conservative 76; Mismatches 58; Indels 4; Gaps 4;
Db	Qy 1160 CCTCCCATCTTCACCGACAGCGTGGCCAGGGCTGAGGAGCTGCATGGCTGGAGGAGCTGCTAG 540
Qy	570 GGTGCCATCTGCCTAACCTCCAGGAGCTGCTGGCCACCCACAGGGTCAG 629
Db	541 GGTCGCATCTGCCTAACCTCCAGGAGCTGCTGGCCACCCACAGGGTCAG 600
Qy	630 CAGGAGCTAGAGTGTCAACATGAGTGTCAAGGAGAACGGCAGATCAGAGCTG 689
Db	601 CAGGAGCTAGAGTGTCAACATGAGTGTCAAGGAGAACGGCAGATCAGAGCTG 660
Qy	690 CAGGAGCTGTGAAGGTGGACGGGGGATGTGAGGCTGTGGAGGAG 749
Db	661 CAGCAGCTGTGGAGTGGACGCGCAGTGTGAGCAGGTGAGCTGCTGCAGAG 720
Qy	750 AGCGCACATGAACTCCGGGTCACGGAGCTACATGAGTCTCTCACAGAGATC 809
Db	721 AGCCGCAACTGAACTCCGGGTCACGGAGCTACATGAGTCTCTCACAGAGATC 780
Qy	810 CGCAGCGGACACGGCGTGGAGCTCCACACTGGAGAACAGGAGCTGTGAGCACA 869
Db	781 CGCAGCGGACACGGCGTGGAGCTCCACACTGGAGAACAGGAGCTGTGAGCACA 940
Qy	870 GCGCACATCTGGCTGGCTGCCACAACTACAGGAGCTGGA 910
Db	841 GCGCACATCTGGCTGCCACAGTACAGGAGCTGGA 881
RESULT 12	
AL525269_c	AL525269 1195 bp mRNA linear EST 22-MAY-2003
DEFINITION	Homo sapiens NEUROBLASTOMA COT 25-NORMALIZED Homo sapiens
ACCESSION	CSO0011Y19 3-PRIME, mRNA sequence.
VERSION	AL525269.2 GI:31043524
KEYWORDS	EST.
SOURCE	Human sapiens (human)
ORGANISM	Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	
REFERENCE	(bases 1 to 1195)
AUTHORS	Li,W.B., Gruber,C., Jesse,J. and Polayes,D.
JOURNAL	Full-length cDNA libraries and normalization
COMMENT	Unpublished (2001)
Contact:	On Feb 13, 2001 this sequence version replaced gi:12788762.
Genoscope - Centre National de Séquençage	
BP 191 91006 ERY cedex - France	
Email: seqref@genoscope.cnrs.fr	
Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 4821.r. For more information about this cluster, see	

/lab host="DH10B-Ton A ("T1 and T5 phage resistances)"
 /clone lib="NIH_MGC_181"
 /note="vector: PCMV-SPORT6.1; Site_1: NotI; Site_2: EcoRV
 (destroyed); Library is oligo-dT primed and directionally
 cloned (EcoRV site is destroyed upon cloning). Average
 insert size 1.42 kb. Library was constructed by
 (Invitrogen). Note: this is a NIH_MGC Library."

ORIGIN

Query	Match	37.6%	Score	816.4	DB	14	Length	870
	Best Local Similarity	98.9%	Pred.	No.	1.15e-98			
Matches	843		Conservative	0	Mismatches	6	Indels	3
							Gaps	2
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Db	1	GGGAGCGGCCCTGAGGTGAACCCAGCCTTGACCTGCCAGCTGGAGCGC	60					
Qy	76	GGCTGAGCTCTGTGAGGAAGAGAGGTGTGACCTGCCAGCCCGAGGAGC	135					
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Db	121	CCTGGCCCCACCTCTGGAGCCACGGCTCTGGAGCAGGAGCCACTGAGG	180					
Qy	196	CAGGGTGTCTTGAGCCACGGCTCTGGAGCAGGAGCCACTCTAGGA	255					
Db	181	CAGGGTGTCTTGAGCCACGGCTCTGGAGCAGGAGCCACTCTAGGA	240					
Qy	256	GTGCCCCGCTGAGCCACGGCTGAGCATGTGAGCAGGCCGGAGGAGA	315					
Db	241	GTGCCCCGCTGAGCCACGGCTGAGCATGTGAGCAGGCCGGAGGAGA	300					
Qy	316	GAAGAGGCTTCATAGATTCTACALAGAAATTACACCATTTGAAAGACAT	375					
Db	301	GAAGAGGCTTCATAGATTCTACALAGAAATTACACCATTTGAAAGACAT	360					
Qy	376	GCCTACTCTGCTGATGTTGGCTGCTGCTGCTGCTGCTGCTGCTG	435					
Db	361	GCCTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	420					
Qy	436	CCGAGGAGGAGCTGTTGAGGCCACTGAGGGCTCGCCAGAGAGTCATTAC	495					
Db	421	CCGAGGAGGAGGTTGAGGCCACTGAGGGCTCGCCAGAGAGTCATTAC	480					
Qy	496	ACAGGTACAACGGGGGGAGTCAGCAAGTCACCTTCATCTGCCCC	555					
Db	481	ACAGGTACAACGGGGGGAGTCAGCAAGTCACCTTCATCTGCCCC	540					
Qy	556	AGCACTGGTCACTGGCTCTGGCTCACTCAAGGAGGCTGAGGCTCTGGAGA	615					
Db	541	AGCACTGGTCACTGGCTCTGGCTCACTCAAGGAGGCTGAGGCTCTGGAGA	600					
Qy	616	ACCGAGTGTCACTGGCTCTGGCTCACTCAAGGAGGCTGAGGCTCTGGAGA	675					
Db	601	ACCGAGTGTCACTGGCTCTGGCTCACTCAAGGAGGCTGAGGCTCTGGAGA	660					
Qy	676	AGATGAGACCTGGAGGAGCTGAGCTCTCAACATGCTGCTCAAGGAGGAGC	735					
Db	661	AGATGAGACCTGGAGGAGCTGAGCTGCTCAAGGAGGAGC	720					
Qy	736	TGCTGGCAAGGAGACCGGAGACATGACTCTGGCTGAGGCTCTAGTGAGCT	795					
Db	721	TGCTGGCAAGGAGACCTGGCTGAGGCTCTAGTGAGCTCTAGTGAGCT	780					
Qy	796	TGCAAGGATATCCCGAACGGGGACAC-GCGTGGAGCTCTCCAGCTG--AGAACA	852					
Db	781	TGCAAGGATATCCCGAACGGGGACAC-GCGTGGAGCTCTCCAGCTGAGAACA	840					
Qy	853	CGATCTGAGAC	864					
Db	841	CGATCTGAGAC	852					

Search completed: August 5, 2004, 18:16:03
 Job time : 5573 secs

